| ROW NO | PAM ID NO. | PARTNER NAME | TITLE/PURPOSE | SIGNATURE DATE | EXPIRATION DATE | TYPE OF AGREEMENT | TOTAL ESTIMATED VALUE | CENTER | CENTER TRACKING NUMBER (IF ANY) | EXPECTED AGENCY BENEFIT(S) | LINK TO SIGNED AGREEMENT |
|--------|------------|---|---|----------------|-----------------|-------------------|--------------------------|--------|------------------------------------|----------------------------|-----------------------------|
| 1 | 39445 | | Conformal Pica (C-Pica) Tech Transfer and Commercial Production | 7/20/2023 | 7/20/2028 | Funded | \$1,900,000 | AFRC | | Space Technology | View Signed Agreement |
| 2 | 39325 | Psionic, LLC | Annex to Space Technology Commercialization for Measurement and Materials Applications | 9/25/2023 | 9/25/2026 | Reimbursable | \$400,000 | AFRC | SAA1-35776 | Space Technology | View Signed Agreement |
| 3 | 38559 | California Polytechnic State University | Annex to CPSLO NASA AFRC Collaboration | 6/13/2023 | 6/13/2024 | Non-Reimbursable | \$40,972 | AFRC | | Technology Transfer | View Signed Agreement |
| 4 | 37799 | Applied Engineering Inc. USE IAE | Access to Space-Like Environments to Facilitate Technology Maturation Under the Flight Opportunities Program TechLeap Prize | 3/27/2023 | 3/27/2024 | Non-Reimbursable | \$692,120 | AFRC | | Space Technology | View Signed Agreement |
| 5 | 37798 | Falcon Exodynamics, Inc | Access to Space-Like Environments to Facilitate Technology Maturation Under the Flight Opportunities Program TechLeap Prize | 2/21/2023 | 2/21/2024 | Non-Reimbursable | \$692,120 | AFRC | | Space Technology | View Signed Agreement |
| 6 | | Bely Remans | Access to Space-Like Environments to Facilitate Technology Maturation Under the Flight Opportunities Program TechLeap Prize | 3/27/2023 | 3/27/2024 | Non-Reimbursable | \$692,120 | AFRC | | Space Technology | View Signed Agreement |
| 7 | 37338 | Saint Mary's College of California | Obstacle Detection for Autonomous UAS Collaboration | 12/7/2022 | 12/7/2025 | Non-Reimbursable | \$9,427 | AFRC | | Technology Transfer | View Signed Agreement |
| 8 | 37337 | Saint Mary's College of California | NASA Saint Mary's T2X Collaboration | 12/7/2022 | 12/7/2025 | Non-Reimbursable | \$0 | AFRC | | Technology Transfer | View Signed Agreement |
| 9 | 36917 | | Annex to Participation in the NASA Advanced Air Mobility National Campaign | 5/25/2022 | 5/25/2027 | Non-Reimbursable | \$516,544 | AFRC | | Aeronautics | View Signed Agreement |
| 10 | 36916 | | Participation in the NASA Advanced Air Mobility National Campaign | 5/25/2022 | 5/25/2027 | Non-Reimbursable | \$0 | AFRC | | Aeronautics | View Signed Agreement |

| ROW | NO. PAM ID NO. | PARTNER NAME | TITLE/PURPOSE | SIGNATURE DATE | EXPIRATION DATE | TYPE OF AGREEMENT | TOTAL ESTIMATED VALUE | CENTER | CENTER TRACKING NUMBER (IF ANY) | EXPECTED AGENCY BENEFIT(S) | LINK TO SIGNED AGREEMENT |
|-----|----------------|---|---|----------------|-----------------|-------------------|--------------------------|--------|------------------------------------|----------------------------|-----------------------------|
| 11 | 36914 | Texas A&M Engineering Experiment Station (TEES) | Access to Space-Like Environments to Facilitate Technology Maturation Under the Flight Opportunities Program | 1/11/2023 | 1/11/2024 | Non-Reimbursable | \$216,811 | AFRC | | Space Technology | View Signed Agreement |
| 12 | 36785 | The Boeing Company | Sustainable Flight Demonstrator Development and Flight Test | 1/13/2023 | 1/13/2030 | Funded | \$607,366,596 | AFRC | | Aeronautics | View Signed Agreement |
| 13 | 36582 | Overair, Inc | Annex to For Advanced Air Mobility Technology Research And Demonstration Activities | 5/25/2022 | 5/27/2027 | Non-Reimbursable | \$516,544 | AFRC | | Aeronautics | View Signed Agreement |
| 14 | 36581 | Overair, Inc | For Advanced Air Mobility Technology Research And Demonstration Activities | 5/25/2022 | 5/25/2027 | Non-Reimbursable | \$0 | AFRC | | Aeronautics | View Signed Agreement |
| 15 | 36580 | Ellis & Associates | Annex to For Advanced Air Mobility Technology Research and Demonstration Activities | 5/25/2022 | 5/25/2027 | Non-Reimbursable | \$516,544 | AFRC | | Aeronautics | View Signed Agreement |
| 16 | 36579 | Ellis & Associates | For Advanced Air Mobility Technology Research and Demonstration Activities | 5/25/2022 | 5/25/2027 | Non-Reimbursable | \$0 | AFRC | | Aeronautics | View Signed Agreement |
| 17 | 36578 | Electra Aero, Inc | Annex to For Advanced Air Mobility Technology Research and Demonstration Activities | 5/25/2022 | 5/25/2027 | Non-Reimbursable | \$516,544 | AFRC | | Aeronautics | View Signed Agreement |
| 18 | 36577 | Electra Aero, Inc | For Advanced Air Mobility Technology Research and Demonstration Activities | 5/25/2022 | 5/25/2027 | Non-Reimbursable | \$0 | AFRC | | Aeronautics | View Signed Agreement |
| 19 | 36576 | California Polytechnic State University | BLDS Flight | 12/5/2022 | 12/5/2023 | Non-Reimbursable | \$9,552 | AFRC | | Aeronautics | View Signed Agreement |
| 20 | 36575 | California Polytechnic State University | CPSLO NASA AFRC Collaboration | 12/5/2022 | 12/5/2025 | Non-Reimbursable | \$0 | AFRC | | Aeronautics | View Signed Agreement |

| ROW N | O. PAM ID NO. | PARTNER NAME | TITLE/PURPOSE | SIGNATURE DATE | EXPIRATION DATE | TYPE OF AGREEMENT | TOTAL ESTIMATED VALUE | CENTER | CENTER TRACKING NUMBER (IF ANY) | EXPECTED AGENCY BENEFIT(S) | LINK TO SIGNED AGREEMENT |
|-------|---------------|----------------------|--|----------------|-----------------|-------------------|--------------------------|--------|------------------------------------|----------------------------|-----------------------------|
| 21 | 35377 | SpinLaunch Inc. | SpinLaunch Test Flight FO Rideshare | 3/17/2022 | 3/17/2024 | Non-Reimbursable | \$65,294 | AFRC | | Space Technology | View Signed Agreement |
| 22 | 35005 | Unmanned Experts Inc | Annex to Advanced Air Mobility Technology Research Demonstration Activities - Airspace | 7/6/2021 | 7/6/2026 | Non-Reimbursable | \$678,932 | AFRC | | Aeronautics | View Signed Agreement |
| 23 | 35004 | Unmanned Experts Inc | Advanced Air Mobility Technology Research Demonstration Activities | 7/8/2021 | 7/8/2026 | Non-Reimbursable | \$0 | AFRC | | Aeronautics | View Signed Agreement |
| 24 | 35003 | Joby Aviation, Inc | Annex to Participate in the NASA UAM Grand Challenge | 7/8/2021 | 7/8/2026 | Non-Reimbursable | \$592,104 | AFRC | | Aeronautics | View Signed Agreement |
| 25 | 35001 | Raytheon Company | Annex to Advanced Air Mobility Technology Research and Demonstration Activities - Infrastructure | 7/6/2021 | 7/6/2026 | Non-Reimbursable | \$678,932 | AFRC | | Aeronautics | View Signed Agreement |
| 26 | 35000 | Raytheon Company | Annex to Advanced Air Mobility Technology Research and Demonstration Activities - Infrastructure | 7/6/2021 | 7/6/2026 | Non-Reimbursable | \$678,932 | AFRC | | Aeronautics | View Signed Agreement |
| 27 | 34999 | Raytheon Company | Advanced Air Mobility Technology Research and Demonstration Activities | 7/6/2021 | 7/6/2026 | Non-Reimbursable | \$0 | AFRC | | Aeronautics | View Signed Agreement |
| 28 | 34998 | Robust Analytics | Annex to Advanced Air Mobility Technology Research and Demonstration Activities - Infrastructure | 7/6/2021 | 7/6/2026 | Non-Reimbursable | \$678,932 | AFRC | | Aeronautics | View Signed Agreement |
| 29 | 34997 | Robust Analytics | Advanced Air Mobility Technology Research and Demonstration Activities | 7/6/2021 | 7/6/2026 | Non-Reimbursable | \$0 | AFRC | | Aeronautics | View Signed Agreement |
| 30 | 34996 | AURA Network Systems | Annex to Advanced Air Mobility Technology Research and Demonstration Activities | 7/6/2021 | 7/6/2026 | Non-Reimbursable | \$678,932 | AFRC | | Aeronautics | View Signed Agreement |

| ROW N | IO. PAM ID NO. | PARTNER NAME | TITLE/PURPOSE | SIGNATURE DATE | EXPIRATION DATE | TYPE OF AGREEMENT | TOTAL ESTIMATED VALUE | CENTER | CENTER TRACKING NUMBER (IF ANY) EXPECTED AGENCY BE | ENEFIT(S) LINK TO SIGNED AGREEMENT |
|-------|----------------|---------------------------|--|----------------|-----------------|-------------------|--------------------------|--------|--|-------------------------------------|
| 31 | 34995 | AURA Network Systems | Advanced Air Mobility Technology Research and Demonstration Activities | 7/6/2021 | 7/6/2026 | Non-Reimbursable | \$0 | AFRC | Aeronautics | View Signed Agreement |
| 32 | 34994 | University of North Texas | Annex to Advanced Air Mobility Technology Research and Demonstration Activities - Infrastructure | 7/6/2021 | 7/6/2026 | Non-Reimbursable | \$678,932 | AFRC | Aeronautics | View Signed Agreement |
| 33 | 34993 | University of North Texas | Advanced Air Mobility Technology Research and Demonstration Activities | 7/6/2021 | 7/6/2026 | Non-Reimbursable | \$0 | AFRC | Aeronautics | View Signed Agreement |
| 34 | 34991 | ARINC Incorporated | Annex to Participation in the NASA UAM Grand Challenge - Airspace | 7/6/2021 | 7/6/2026 | Non-Reimbursable | \$678,932 | AFRC | Aeronautics | View Signed Agreement |
| 35 | 34990 | SkyGrid, LLC | Annex to Advanced Air Mobility Technology Research and Demonstration Activities - Infrastructure | 7/6/2021 | 7/6/2026 | Non-Reimbursable | \$678,932 | AFRC | Aeronautics | View Signed Agreement |
| 36 | 34989 | SkyGrid, LLC | Annex to Advanced Air Mobility Technology Research and Demonstration Activities - Airspace | 7/6/2021 | 7/6/2026 | Non-Reimbursable | \$678,932 | AFRC | Aeronautics | View Signed Agreement |
| 37 | 34988 | SkyGrid, LLC | Advanced Air Mobility Technology Research and Demonstration Activities | 7/6/2021 | 7/6/2026 | Non-Reimbursable | \$0 | AFRC | Aeronautics | View Signed Agreement |
| 38 | 34987 | OneSky Systems Inc | Annex to Advanced Air Mobility Technology Research and Demonstration Activities - Airspace | 7/6/2021 | 7/6/2026 | Non-Reimbursable | \$678,932 | AFRC | Aeronautics | View Signed Agreement |
| 39 | 34986 | OneSky Systems Inc | Advanced Air Mobility Technology Research and Demonstration Activities | 7/6/2021 | 7/6/2026 | Non-Reimbursable | \$0 | AFRC | Aeronautics | View Signed Agreement |
| 40 | 34985 | Metron Aviation, Inc | Annex to Advanced Air Mobility Technology Research and Demonstration Activities | 7/6/2021 | 7/6/2026 | Non-Reimbursable | \$678,932 | AFRC | Aeronautics | View Signed Agreement |

| ROW N | O. PAM ID NO. | PARTNER NAME | TITLE/PURPOSE | SIGNATURE DATE | EXPIRATION DATE | TYPE OF AGREEMENT | TOTAL ESTIMATED VALUE | CENTER | CENTER TRACKING NUMBER (IF ANY) | EXPECTED AGENCY BENEFIT(S) | LINK TO SIGNED AGREEMENT |
|-------|---------------|----------------------------------|--|----------------|-----------------|-------------------|--------------------------|--------|------------------------------------|----------------------------|-----------------------------|
| 41 | 34984 | Metron Aviation, Inc | Advanced Air Mobility Technology Research and Demonstration Activities | 7/6/2021 | 7/6/2026 | Non-Reimbursable | \$0 | AFRC | | Aeronautics | View Signed Agreement |
| 42 | 34983 | Avision, INC | Annex to Advanced Air Mobility Technology Research and Demonstration Activities | 7/6/2021 | 7/6/2026 | Non-Reimbursable | \$678,932 | AFRC | | Aeronautics | View Signed Agreement |
| 43 | 34982 | Avision, Inc | Advanced Air Mobility Technology Research and Demonstration Activities | 7/6/2021 | 7/6/2026 | Non-Reimbursable | \$0 | AFRC | | Aeronautics | View Signed Agreement |
| 44 | 34981 | ANRA Technologies, LLC | Annex to Advanced Air Mobility Technology Research and Demonstration Activities - Airspace | 7/6/2021 | 7/6/2026 | Non-Reimbursable | \$678,932 | AFRC | | Aeronautics | View Signed Agreement |
| 45 | 34980 | ANRA Technologies, LLC | Advanced Air Mobility Technology Research and Demonstration Activities | 7/6/2021 | 7/6/2026 | Non-Reimbursable | \$0 | AFRC | | Aeronautics | View Signed Agreement |
| 46 | 34979 | Wisk Aero, LLC | Annex to Participation in the NASA AAM National Campaign - Flight Annex | 7/6/2021 | 7/6/2026 | Non-Reimbursable | \$592,104 | AFRC | | Aeronautics | View Signed Agreement |
| 47 | 34978 | Reliable Robotics Corporation | Annex to Advanced Air Mobility Technology Research and Demonstration Activities - Flight Annex | 7/6/2021 | 7/6/2026 | Non-Reimbursable | \$592,104 | AFRC | | Aeronautics | View Signed Agreement |
| 48 | 34977 | Reliable Robotics Corporation | Advanced Air Mobility Technology Research and Demonstration Activities | 7/6/2021 | 7/6/2026 | Non-Reimbursable | \$0 | AFRC | | Aeronautics | View Signed Agreement |
| 49 | 34443 | Alaka'i Technologies Corporation | Annex to Participation in the NASA AAM National Campaign | 10/2/2020 | 10/2/2025 | Non-Reimbursable | \$592,104 | AFRC | | Aeronautics | View Signed Agreement |
| 50 | 34442 | Alaka'i Technologies Corporation | Participation in the NASA AAM National Campaign | 10/2/2020 | 10/2/2025 | Non-Reimbursable | \$0 | AFRC | | Aeronautics | View Signed Agreement |

| ROW N | O. PAM ID NO. | PARTNER NAME | TITLE/PURPOSE | SIGNATURE DATE | EXPIRATION DATE | TYPE OF AGREEMENT | TOTAL ESTIMATED VALUE | CENTER | CENTER TRACKING NUMBER (IF ANY) | EXPECTED AGENCY BENEFIT(S) | LINK TO SIGNED AGREEMENT |
|-------|---------------|--|--|----------------|-----------------|-------------------|--------------------------|--------|------------------------------------|----------------------------|-----------------------------|
| 51 | 34439 | Wisk Aero, LLC | AAM National Campaign - 1 Vehicle Provider Information Exchange Annex | 10/22/2020 | 10/22/2025 | Non-Reimbursable | \$592,104 | AFRC | | Aeronautics | View Signed Agreement |
| 52 | 34436 | Wisk Aero, LLC | Participation in the NASA AAM National Campaign | 10/22/2020 | 10/22/2025 | Non-Reimbursable | \$0 | AFRC | | Aeronautics | View Signed Agreement |
| 53 | 33843 | University Enterprises Corporation at California State University San Bernardino | a Non-Reimbursable Space Act Agreement For Collaborative Opportunities for Technology Development | 3/1/2022 | 3/1/2027 | Non-Reimbursable | \$0 | AFRC | | Aeronautics | View Signed Agreement |
| 54 | 33089 | Bell Textron, Inc | Annex to Hybrid-Electric System Integration, Development and Testing Activities | 1/15/2020 | 8/8/2024 | Non-Reimbursable | \$592,104 | AFRC | | Aeronautics | View Signed Agreement |
| 55 | 33088 | The Boeing Company | Grand Challenge Vehicle Provider Information Exchange Annex | 2/28/2020 | 2/28/2025 | Non-Reimbursable | \$592,104 | AFRC | | Aeronautics | View Signed Agreement |
| 56 | 33087 | The Boeing Company | Participation in the NASA UAM Grand Challenge | 2/28/2020 | 2/28/2025 | Non-Reimbursable | \$0 | AFRC | | Aeronautics | View Signed Agreement |
| 57 | 33085 | Zeva, Inc (dba Zeva Aero) | Grand Challenge Vehicle Provider Information Exchange Annex | 2/3/2020 | 2/3/2025 | Non-Reimbursable | \$592,104 | AFRC | | Aeronautics | View Signed Agreement |
| 58 | 33084 | Zeva, Inc (dba Zeva Aero) | Participation in the NASA UAM Grand Challenge | 2/3/2020 | 2/3/2025 | Non-Reimbursable | \$0 | AFRC | | Aeronautics | View Signed Agreement |
| 59 | 33081 | The University of North Texas | Grand Challenge - Development Test Airspace Annex | 2/3/2020 | 2/3/2025 | Non-Reimbursable | \$678,932 | AFRC | | Aeronautics | View Signed Agreement |
| 60 | 33080 | The University of North Texas | Participation in the NASA UAM Grand Challenge | 2/3/2020 | 2/3/2025 | Non-Reimbursable | \$0 | AFRC | | Aeronautics | View Signed Agreement |

| RO | W NO. | PAM ID NO. | PARTNER NAME | TITLE/PURPOSE | SIGNATURE DATE | EXPIRATION DATE | TYPE OF AGREEMENT | TOTAL ESTIMATED VALUE | CENTER | CENTER TRACKING NUMBER (IF ANY) | EXPECTED AGENCY BENEFIT(S) | LINK TO SIGNED AGREEMENT |
|----|-------|------------|------------------------|--|----------------|-----------------|-------------------|--------------------------|--------|------------------------------------|----------------------------|-----------------------------|
| 61 | 33 | 3079 | Uber Technologies, Inc | Grand Challenge - Development Test Airspace Annex | 2/3/2020 | 2/3/2025 | Non-Reimbursable | \$678,932 | AFRC | | Aeronautics | View Signed Agreement |
| 62 | 33 | 3078 | Uber Technologies, Inc | Participation in the NASA UAM Grand Challenge | 2/3/2020 | 2/3/2025 | Non-Reimbursable | \$0 | AFRC | | Aeronautics | View Signed Agreement |
| 63 | 33 | 3076 | | Grand Challenge Vehicle Provider Information Exchange Annex | 2/3/2020 | 2/3/2025 | Non-Reimbursable | \$592,104 | AFRC | | Aeronautics | View Signed Agreement |
| 64 | 33 | 3075 | Prodentity, LLC | Participation in the NASA UAM Grand Challenge | 2/3/2020 | 2/3/2025 | Non-Reimbursable | \$0 | AFRC | | Aeronautics | View Signed Agreement |
| 65 | 33 | 3073 | OneSky Systems Inc | Grand Challenge - Development Test Airspace Annex | 2/3/2020 | 2/3/2025 | Non-Reimbursable | \$678,932 | AFRC | | Aeronautics | View Signed Agreement |
| 66 | 33 | 3072 | OneSky Systems Inc | Participation in the NASA UAM Grand Challenge | 2/3/2020 | 2/3/2025 | Non-Reimbursable | \$0 | AFRC | | Aeronautics | View Signed Agreement |
| 67 | 33 | 3065 | | Grand Challenge Vehicle Provider Information Exchange Annex | 2/3/2020 | 2/3/2025 | Non-Reimbursable | \$592,104 | AFRC | | Aeronautics | View Signed Agreement |
| 68 | 33 | 3064 | NFT, Inc | Participation in the NASA UAM Grand Challenge | 2/3/2020 | 2/3/2025 | Non-Reimbursable | \$0 | AFRC | | Aeronautics | View Signed Agreement |
| 69 | 33 | 3063 | Metron Aviation, Inc | Grand Challenge - Development Test Airspace Annex | 2/3/2020 | 2/3/2025 | Non-Reimbursable | \$678,932 | AFRC | | Aeronautics | View Signed Agreement |
| 70 | 33 | 3062 | Metron Aviation, Inc | Participation in the NASA UAM Grand Challenge | 2/3/2020 | 2/3/2025 | Non-Reimbursable | \$0 | AFRC | | Aeronautics | View Signed Agreement |

| ROW N | D. PAM ID NO. | PARTNER NAME | TITLE/PURPOSE | SIGNATURE DATE | EXPIRATION DATE | TYPE OF AGREEMENT | TOTAL ESTIMATED VALUE | CENTER | CENTER TRACKING NUMBER (IF ANY) | EXPECTED AGENCY BENEFIT(S) | LINK TO SIGNED AGREEMENT |
|-------|---------------|------------------------|---|----------------|-----------------|-------------------|--------------------------|--------|------------------------------------|----------------------------|-----------------------------|
| 71 | 33059 | GeoRq LLC | Grand Challenge - Development Test Airspace Annex | 2/3/2020 | 2/3/2025 | Non-Reimbursable | \$678,932 | AFRC | | Aeronautics | View Signed Agreement |
| 72 | 33058 | GeoRq LLC | Participation in the NASA UAM Grand Challenge | 2/3/2020 | 2/3/2025 | Non-Reimbursable | \$0 | AFRC | | Aeronautics | View Signed Agreement |
| 73 | 33057 | Ellis & Associates | Grand Challenge - Development Test Airspace Annex | 2/3/2020 | 2/3/2025 | Non-Reimbursable | \$678,932 | AFRC | | Aeronautics | View Signed Agreement |
| 74 | 33056 | Ellis & Associates | Participation in the NASA UAM Grand Challenge | 2/3/2020 | 2/3/2025 | Non-Reimbursable | \$0 | AFRC | | Aeronautics | View Signed Agreement |
| 75 | 33055 | Avision, Inc | Grand Challenge - Development Test Airspace Annex | 2/3/2020 | 2/3/2025 | Non-Reimbursable | \$678,932 | AFRC | | Aeronautics | View Signed Agreement |
| 76 | 33054 | Avision, Inc | Participation in the NASA UAM Grand Challenge | 2/3/2020 | 2/3/2025 | Non-Reimbursable | \$0 | AFRC | | Aeronautics | View Signed Agreement |
| 77 | 33039 | ARINC Incorporated | Grand Challenge - Development Test Airspace Annex | 2/3/2020 | 2/3/2025 | Non-Reimbursable | \$678,932 | AFRC | | Aeronautics | View Signed Agreement |
| 78 | 33038 | ARINC Incorporated | Participation in the NASA UAM Grand Challenge | 2/3/2020 | 2/3/2025 | Non-Reimbursable | \$0 | AFRC | | Aeronautics | View Signed Agreement |
| 79 | 33037 | ANRA Technologies, LLC | Grand Challenge - Development Test Airspace Annex | 2/3/2020 | 2/3/2025 | Non-Reimbursable | \$678,932 | AFRC | | Aeronautics | View Signed Agreement |
| 80 | 33036 | ANRA Technologies, LLC | Participation in the NASA UAM Grand Challenge | 2/3/2020 | 2/3/2025 | Non-Reimbursable | \$0 | AFRC | | Aeronautics | View Signed Agreement |

| ROW | NO. PAM ID NO | . PARTNER NAME | TITLE/PURPOSE | SIGNATURE DATE | EXPIRATION DATE | TYPE OF AGREEMENT | TOTAL ESTIMATED VALUE | CENTER | CENTER TRACKING NUMBER (IF ANY) | EXPECTED AGENCY BENEFIT(S) | LINK TO SIGNED AGREEMENT |
|-----|---------------|---------------------|---|----------------|-----------------|-------------------|--------------------------|--------|------------------------------------|----------------------------|-----------------------------|
| 81 | 33035 | AiRXOS, Inc | Grand Challenge - Development Test Airspace Annex | 3/2/2020 | 3/2/2025 | Non-Reimbursable | \$678,932 | AFRC | | Aeronautics | View Signed Agreement |
| 82 | 33034 | AiRXOS, Inc | Participation in the NASA UAM Grand Challenge | 3/2/2020 | 3/2/2025 | Non-Reimbursable | \$0 | AFRC | | Aeronautics | View Signed Agreement |
| 83 | 33033 | Airmap, Inc | Participation in the NASA UAM Grand Challenge - Development Test Airspace Annex | 2/3/2020 | 2/3/2025 | Non-Reimbursable | \$678,932 | AFRC | | Aeronautics | View Signed Agreement |
| 84 | 33032 | Airmap, Inc | Participation in the NASA UAM Grand Challenge | 2/3/2020 | 2/3/2025 | Non-Reimbursable | \$0 | AFRC | | Aeronautics | View Signed Agreement |
| 85 | 33031 | Joby Aviation, Inc | Grand Challenge - Development Test Flight Annex | 2/19/2020 | 2/19/2025 | Non-Reimbursable | \$592,104 | AFRC | | Aeronautics | View Signed Agreement |
| 86 | 33030 | Joby Aviation, Inc | Participation in the NASA UAM Grand Challenge | 2/19/2020 | 2/19/2025 | Non-Reimbursable | \$0 | AFRC | | Aeronautics | View Signed Agreement |
| 87 | 32757 | AeroVironment, Inc. | Small Unmanned Aircraft System (SUAS)Testing and Training | 11/10/2020 | 11/10/2025 | Reimbursable | \$116,000 | AFRC | | Aeronautics | View Signed Agreement |
| 88 | 32339 | Fenix Space, Inc. | Supporting Development of a Tow-glider Launch Platform through Aerodynamic Store Separation Analysis, Range Safety Studies, and Con-Ops Development | 5/27/2020 | 5/27/2025 | Reimbursable | \$75,552 | AFRC | | Aeronautics | View Signed Agreement |
| 89 | 32338 | Fenix Space, Inc. | Development of Tow-glider Launch Platform | 5/27/2020 | 5/27/2025 | Reimbursable | \$0 | AFRC | | Aeronautics | View Signed Agreement |
| 90 | 32161 | Learjet, Inc | Business Jet Flight Test Support | 5/17/2021 | 5/17/2026 | Reimbursable | \$0 | AFRC | | Aeronautics | View Signed Agreement |

| ROW N | O. PAM ID NO. | PARTNER NAME | TITLE/PURPOSE | SIGNATURE DATE | EXPIRATION DATE | TYPE OF AGREEMENT | TOTAL ESTIMATED VALUE | CENTER | CENTER TRACKING NUMBER (IF ANY) | EXPECTED AGENCY BENEFIT(S) | LINK TO SIGNED AGREEMENT |
|-------|---------------|---------------------------------|--|----------------|-----------------|-------------------|--------------------------|--------|------------------------------------|-----------------------------------|-----------------------------|
| 91 | 31694 | Stratolaunch, LLC | To Support Flight Operations of the Stratolaunch Carrier Aircraft | 2/13/2020 | 2/13/2025 | Reimbursable | \$417,708 | AFRC | | Aeronautics | View Signed Agreement |
| 92 | 31693 | Stratolaunch, LLC | To Support Flight Operations of the Stratolaunch Carrier Aircraft | 2/13/2020 | 2/13/2025 | Reimbursable | \$0 | AFRC | | Aeronautics | View Signed Agreement |
| 93 | 30150 | Federal Aviation Administration | Collaboration between NASA and FAA on the Development of Autonomous Systems Guidelines for More Efficient Process to Gain Certification. | 6/26/2019 | 6/26/2024 | Non-Reimbursable | \$350,444 | AFRC | | Aeronautics | View Signed Agreement |
| 94 | 30149 | Federal Aviation Administration | Non-Reimbursable Umbrella between NASA AFRC and FAA for Development of Flight Safety and Autonomous System Technologies and Processes | | 6/26/2024 | Non-Reimbursable | \$0 | AFRC | | Aeronautics | View Signed Agreement |
| 95 | 27967 | AeroVironment, Inc | Unmanned Aircraft Systems (UAS) Testing | 11/14/2018 | 11/14/2023 | Reimbursable | \$0 | AFRC | | Aeronautics | View Signed Agreement |
| 96 | 26974 | Bell Textron, Inc | Hybrid-Electric System Integration, Development and Testing Activities | 8/8/2019 | 8/8/2024 | Non-Reimbursable | \$0 | AFRC | | Aeronautics | View Signed Agreement |
| 97 | 39747 | RMV Technology Group, LLC | Annex One to Reimbursable Umbrella Space Act Agreement between NASA Ames Research Center and RMV Technology for Demand Services | | 6/28/2024 | Reimbursable | \$2,659 | ARC | SAA2-403790-1 | Institutional and Mission Support | View Signed Agreement |
| 98 | 39746 | RMV Technology Group, LLC | Reimbursable Umbrella Space Act Agreement between NASA Ames Research Center and RMV Technology for Demand Services | 9/29/2023 | 9/28/2024 | Reimbursable | \$0 | ARC | SAA2-403790 | Institutional and Mission Support | View Signed Agreement |
| 99 | 39720 | VASPER SYSTEMS CALIFORNIA, LLC | Annex One to Reimbursable Umbrella Space Act Agreement between NASA Ames Research Center and Vasper, LLC for Vasper Utilities | | 6/28/2024 | Reimbursable | \$20,700 | ARC | SAA2-403788-1 | Institutional and Mission Support | View Signed Agreement |
| 100 | 39719 | VASPER SYSTEMS CALIFORNIA, LLC | Reimbursable Umbrella Space Act Agreement between NASA Ames Research Center and Vasper, LLC for Vasper Utilities | 9/29/2023 | 9/28/2024 | Reimbursable | \$0 | ARC | SAA2-403788 | Institutional and Mission Support | View Signed Agreement |

| ROW NO | PAM ID NO. | PARTNER NAME | TITLE/PURPOSE | SIGNATURE DATE | EXPIRATION DATE | TYPE OF AGREEMENT | . TOTAL ESTIMATED VALUE | CENTER | CENTER TRACKING NUMBER (IF ANY) | EXPECTED AGENCY BENEFIT(S) | LINK TO SIGNED AGREEMENT |
|--------|------------|---|--|----------------|-----------------|-------------------|----------------------------|--------|------------------------------------|--|-----------------------------|
| 101 | 39333 | Delphire, Inc. | Non-Reimbursable Space Act Agreement between NASA Ames Research Center and Delphire, Inc to Analyze and Collaborate on Wildfire Management Technology | 9/26/2023 | 9/25/2025 | Non-Reimbursable | \$46,825 | ARC | SAA2-403775 | Aeronautics | View Signed Agreement |
| 102 | 39063 | Martina Dimoska | Annex One under Non-Reimbursable Umbrella Space Act Agreement between NASA Ames Research Center and Martina Dimoska for Space Apps Challenge | 9/5/2023 | 9/4/2024 | Non-Reimbursable | \$30,687 | ARC | SAA2-403770-1 | Science, Education and/or Public Engagement | View Signed Agreement |
| 103 | 39062 | Martina Dimoska | Non-Reimbursable Umbrella Space Act Agreement between NASA Ames Research Center and Martina Dimoska for Space Apps Challenge | 9/5/2023 | 9/4/2028 | Non-Reimbursable | \$0 | ARC | SAA2-403770 | Science, Education and/or Public Engagement | View Signed Agreement |
| 104 | 39049 | Rocket Lab USA | Non-Reimbursable Space Act Agreement between NASA Ames Research Center and Rocket Lab USA for Space Science, Earth Science, and Engineering Research | 6/20/2023 | 8/19/2027 | Non-Reimbursable | \$458,758 | ARC | SAA2-403750 | Space Technology | View Signed Agreement |
| 105 | 38963 | The Boeing Company | Annex Five to Reimbursable Umbrella Space Act Agreement between NASA Ames Research Center and the Boeing Company for Wind Tunnel Testing | 7/10/2023 | 7/9/2024 | Reimbursable | \$4,716,000 | ARC | SAA2-403460-5 | Aeronautics | View Signed Agreement |
| 106 | | REGENTS OF THE UNIVERSITY OF MINNESOTA | Reimbursable Space Act Agreement between NASA ARC and Regents of the University of Minnesota for Re-Entry Flight System | 8/14/2023 | 5/13/2024 | Reimbursable | \$290,598 | ARC | SAA2-403617 | Space Technology | View Signed Agreement |
| 107 | 38728 | Relativity Space, Inc. | Annex One under Reimbursable Umbrella Space Act Agreement between NASA Ames Research Center and Relativity Space for Support of Re-Entry Capsule | 8/16/2023 | 8/15/2026 | Reimbursable | \$601,424 | ARC | | Space Technology | View Signed Agreement |
| 108 | 38726 | Relativity Space, Inc. | Reimbursable Umbrella Space Act Agreement between NASA Ames Research Center and Relativity Space for Support of Re-Entry Capsule | 8/16/2023 | 8/15/2028 | Reimbursable | \$0 | ARC | SAA2-403760 | Space Technology | View Signed Agreement |
| 109 | 38721 | Lunar Resources, Inc. | Non-Reimbursable Space Act Agreement between NASA Ames Research Center and Lunar Resources, Inc. for In-Situ Resource Utilization (ISRU) Processing of Automated Reconfigurable Mission Adaptive Digital Assembly Systems (ARMADAS) Structural Parts | 6/23/2023 | 12/22/2024 | Non-Reimbursable | \$81,467 | ARC | SAA2-403759 | Human Exploration and Operations | View Signed Agreement |
| 110 | 38661 | SKYCORP, INC | Reimbursable Space Act Agreement between NASA Ames Research Center and Skycorp, Inc. for Testing Support at the Engineering Evaluation Laboratory | 5/2/2023 | 9/30/2024 | Reimbursable | \$18,994 | ARC | SAA2-403752 | Science | View Signed Agreement |

| ROW NO | PAM ID NO. | PARTNER NAME | TITLE/PURPOSE | SIGNATURE DATE | EXPIRATION DATE | TYPE OF AGREEMENT | TOTAL ESTIMATED VALUE | CENTER | CENTER TRACKING NUMBER (IF ANY) | EXPECTED AGENCY BENEFIT(S) | LINK TO SIGNED AGREEMENT |
|--------|------------|--------------------------------------|---|----------------|-----------------|-------------------|--------------------------|--------|------------------------------------|----------------------------|-----------------------------|
| 111 | 38467 | Small Payload Ride Share Association | Non-Reimbursable Space Act Agreement between NASA Ames Research Center and Small Spacecraft Ride Share Association for Co-Hosting the Annual Small Payload Ride Share Symposium | 3/24/2023 | 3/23/2024 | Non-Reimbursable | \$16,666 | ARC | SAA2-403747 | Science | View Signed Agreement |
| 112 | 38410 | SOUTHWEST AIRLINES COMPANY | Non-Reimbursable Space Act Agreement between NASA Ames Research Center and Southwest Airlines for Digital Information Platform (DIP) Flight Operators Partnerships | 3/21/2023 | 3/20/2028 | Non-Reimbursable | \$2,502,449 | ARC | SAA2-403745 | Aeronautics | View Signed Agreement |
| 113 | 38397 | The Boeing Company | Annex Four under Reimbursable Umbrella Space Act Agreement between NASA Ames Research Center and The Boeing Company for Wind Tunnel Testing | 7/7/2023 | 7/6/2024 | Reimbursable | \$9,679,009 | ARC | SAA2-403460-4 | Aeronautics | View Signed Agreement |
| 114 | 38344 | NISSAN NORTH AMERICA, INC | Annex Three to the Reimbursable Space Act Umbrella Agreement with Nissan North America, Inc for Development and Validation of Open-Source Software Tools for Material Informatics | 8/11/2023 | 6/10/2025 | Reimbursable | \$369,700 | ARC | SAA2-403545-3 | Space Technology | View Signed Agreement |
| 115 | 38277 | JOBY AVIATION, INC | Annex Two to Non-Reimbursable Umbrella Space Act Agreement between NASA Ames Research Center and Joby Aviation for High-Rate Composite Component Manufacturing | 7/5/2023 | 7/4/2025 | Non-Reimbursable | \$1,361,650 | ARC | SAA2-403660 | Aeronautics | View Signed Agreement |
| 116 | 38192 | AMERICAN AIRLINES, INC | Non-Reimbursable Space Act Agreement between NASA Ames Research Center and American Airlines for Digital Information Platform (DIP) Flight Operators Partnership | 1/31/2023 | 1/30/2028 | Non-Reimbursable | \$2,502,449 | ARC | SAA2-403741 | Aeronautics | View Signed Agreement |
| 117 | 38086 | Virgin Orbit | Annex Eight to the Reimbursable Space Act Umbrella Agreement between NASA Ames Research Center and Virgin Orbit, LLC for Analysis and Simulation of Transport Aircraft as a Launch Platform | 3/2/2023 | 3/1/2024 | Reimbursable | \$115,689 | ARC | SAA2-403586-8 | Aeronautics | View Signed Agreement |
| 118 | 38017 | Lockheed Martin | Annex Two to the Reimbursable Space Act Umbrella Agreement between NASA Ames Research Center and Lockheed Martin Corporation for Wind Tunnel Testing | 2/10/2023 | 2/9/2024 | Reimbursable | \$6,081,280 | ARC | SAA2-403738-2 | Aeronautics | View Signed Agreement |
| 119 | 37980 | Delta Air Lines | Non-Reimbursable Space Act Agreement between NASA Ames Research Center and Delta Airlines for Digital Information Platform (DIP) Flight Operators Partnership | 1/6/2023 | 1/5/2028 | Non-Reimbursable | \$2,502,449 | ARC | SAA2-403736 | Aeronautics | View Signed Agreement |
| 120 | 37979 | JetBlue Airways | Non-Reimbursable Space Act Agreement between NASA Ames Research Center and JetBlue Airlines for Digital Information Platform Flight Operators Partnership | 1/4/2023 | 1/3/2028 | Non-Reimbursable | \$2,502,449 | ARC | SAA2-403734 | Aeronautics | View Signed Agreement |

| ROW NO | . PAM ID NO. | PARTNER NAME | TITLE/PURPOSE | SIGNATURE DATE | EXPIRATION DATE | TYPE OF AGREEMENT | TOTAL ESTIMATED VALUE | CENTER | CENTER TRACKING NUMBER (IF ANY) | EXPECTED AGENCY BENEFIT(S) | LINK TO SIGNED AGREEMENT |
|--------|--------------|------------------------------|--|----------------|-----------------|-------------------|-----------------------|--------|------------------------------------|---|-----------------------------|
| 121 | 37812 | ATA Engineering | Reimbursable Space Act Agreement between NASA Ames Research Center and ATA Engineering for Validation of a Fluid-Structure Material Interaction (FSMI) Modeling and Simulation Toolset at the NASA Ames Interaction Heating Facility (IHF) | 6/28/2023 | 6/27/2024 | Reimbursable | \$397,392 | ARC | SAA2-403729 | Science | View Signed Agreement |
| 122 | 37746 | Ventura Prototypes | Reimbursable Space Act Agreement between NASA Ames Research Center and Ventura Prototypes for Evaluation of Sensor for Use in Flu Detection | 11/16/2022 | 11/15/2024 | Reimbursable | \$43,043 | ARC | SAA2-403728 | Space Technology | View Signed Agreement |
| 123 | 37710 | Aerostar International LLC | Non-Reimbursable Space Act Agreement between NASA Ames Research Center and Aerostar International, LLC for Collaborative Evaluation of Prototype NASA Research Upper Class E Traffic Management (ETM) System | 4/18/2023 | 4/17/2028 | Non-Reimbursable | \$1,242,127 | ARC | SAA2-403727 | Aeronautics | View Signed Agreement |
| 124 | 37697 | University of Georgia | Non-Reimbursable Space Act Agreement between NASA Ames Research Center and University of Georgia for Robust 3D Modeling via Neural Radiance Fields | 2/15/2023 | 8/14/2024 | Non-Reimbursable | \$122,644 | ARC | SAA2-403726 | Human Exploration and Operations, Space Technology | View Signed Agreement |
| 125 | 37685 | Impulse Space | Annex One under Reimbursable Umbrella Space Act Agreement between NASA Ames Research Center and Impulse Space for Support of Re-Entry Capsule | 11/16/2022 | 11/15/2023 | Reimbursable | \$31,023 | ARC | SAA2-403725-1 | Space Technology | View Signed Agreement |
| 126 | 37684 | Impulse Space | Reimbursable Umbrella Space Act Agreement between NASA Ames Research Center and Impulse Space for Support of Re-Entry Capsule | 11/16/2022 | 11/15/2027 | Reimbursable | \$0 | ARC | SAA2-403725 | Space Technology | View Signed Agreement |
| 127 | 37669 | Northrop Grumman Corporation | Annex Five to the Reimbursable Space Act Umbrella Agreement between NASA Ames Research Center and Northrop Grumman Corporation for Wind Tunnel Testing | 11/30/2022 | 11/29/2024 | Reimbursable | \$6,300,000 | ARC | SAA2-403514-5 | Aeronautics | View Signed Agreement |
| 128 | 37637 | Blue Origin, LLC | Annex Nine to Reimbursable Umbrella Space Act Agreement Between the National Aeronautics and Space Administration Ames Research Center and Blue Origin, LLC to Support Blue Origin Commercial Space Transportation Development | 40/44/2022 | 4/13/2024 | Reimbursable | \$3,924,000 | ARC | SAA2-403403-9 | Human Exploration and Operations, Space Technology | View Signed Agreement |
| 129 | 37602 | Aeva, Inc | Non-Reimbursable Space Act Agreement between NASA Ames Research Center and Aeva, Inc for Frequency Modulated Continuous Wave LiDAR Testing and Evaluation | 4/27/2023 | 4/26/2024 | Non-Reimbursable | \$7,213 | ARC | SAA2-403724 | Human Exploration and Operations | View Signed Agreement |
| 130 | 37415 | Joby Aero, Inc | Annex One under Non-Reimbursable Space Act Umbrella Agreement between NASA Ames Research Center and Joby Aero, Inc for Research, Development, Testing, and Evaluation of an Urban Air Mobility (UAM) System | 12/20/2022 | 12/19/2027 | Non-Reimbursable | \$322,807 | ARC | SAA2-403721-1 | Aeronautics | View Signed Agreement |

| ROW NO | D. PAM ID NO. | PARTNER NAME | TITLE/PURPOSE | SIGNATURE DATE | EXPIRATION DATE | TYPE OF AGREEMENT | TOTAL ESTIMATED VALUE | CENTER | CENTER TRACKING NUMBER (IF ANY) | EXPECTED AGENCY BENEFIT(S) | LINK TO SIGNED AGREEMENT |
|--------|---------------|--|---|----------------|-----------------|-------------------|--------------------------|--------|------------------------------------|----------------------------|-----------------------------|
| 131 | 37414 | Joby Aero, Inc | Non-Reimbursable Space Act Umbrella Agreement between NASA Ames Research Center and Joby Aero, Inc for Research, Development, Testing, and Evaluation of an Urban Air Mobility (UAM) System | 12/20/2022 | 12/19/2027 | Non-Reimbursable | \$0 | ARC | SAA2-403721 | Aeronautics | View Signed Agreement |
| 132 | 37381 | Agscent USA | Reimbursable Space Act Agreement between NASA Ames Research Center and Agscent USA for Transfer of Know How and Optimization of Sensors for the Purpose of Commercializing Nanosensor Array for Livestock Diagnostics | | 2/29/2024 | Reimbursable | \$301,244 | ARC | SAA2-403720 | Space Technology | View Signed Agreement |
| 133 | 37314 | Xwing, Inc. | Annex One under Non-Reimbursable Umbrella Space Act Agreement between NASA Ames Research Center and Xwing, Inc for Developing Processes and Procedures that Safely Enable Increasingly-Autonomous Aviation in the National Airspace | 9/27/2022 | 9/26/2025 | Non-Reimbursable | \$1,078,213 | ARC | SAA2-403718-1 | Aeronautics | View Signed Agreement |
| 134 | 37306 | Xwing, Inc. | Non-Reimbursable Umbrella Space Act Agreement between NASA Ames Research Center and Xwing, Inc for Developing Processes and Procedures that Safely Enable Increasingly-Autonomous Aviation in the National Airspace | 9/27/2022 | 9/26/2027 | Non-Reimbursable | \$0 | ARC | SAA2-403718 | Aeronautics | View Signed Agreement |
| 135 | 37254 | Autonomy Association International, Inc | Annex One under Non-Reimbursable Space Act Umbrella Agreement between NASA Ames Research Center and Autonomy Association International for Collaborative Research in the Application of NASA Aeronautics Technologies, Facilities, and Services | 9/7/2022 | 9/30/2023 | Non-Reimbursable | \$235,122 | ARC | SAA2-403715-1 | Aeronautics | View Signed Agreement |
| 136 | 37253 | Autonomy Association International, Inc | Non-Reimbursable Space Act Umbrella Agreement between NASA Ames Research Center and Autonomy Association International for Collaborative Research in the Application of NASA Aeronautics Technologies, Facilities, and Services | 9/7/2022 | 9/6/2027 | Non-Reimbursable | \$0 | ARC | SAA2-403715 | Aeronautics | View Signed Agreement |
| 137 | 37252 | Raytheon Defense Systems | Reimbursable Space Act Agreement between NASA Ames Research Center and Raytheon Defense Systems for Enhanced Heating Sample Testing at the NASA Ames Interaction Heating Facility (IHF) Laser Enhanced Arc Jet Facility (LEAF) | 7/14/2023 | 7/13/2025 | Reimbursable | \$950,183 | ARC | SAA2-403714 | Space Technology | View Signed Agreement |
| 138 | 37080 | Rigetti Computing | Non-Reimbursable Space Act Agreement between NASA Ames Research Center and Rigetti Computing for Assess a Gate-Based Quantum Computing Processor for Meeting Complex Computing Challenges | 2/8/2023 | 2/7/2028 | Non-Reimbursable | \$46,464 | ARC | SAA2-403707 | Aeronautics | View Signed Agreement |
| 139 | 37027 | Google, LLC | Reimbursable Space Act Agreement between NASA Ames Research Center and Google, LLC for Calibration and Noise Characterization Approaches for Quantum Hardware | 2/24/2023 | 2/23/2026 | Reimbursable | \$900,000 | ARC | SAA2-403706 | Science | View Signed Agreement |
| 140 | 36965 | Naval Information Warfare Center Pacific | Annex Two under Non-Reimbursable Umbrella Interagency Agreement between NASA ARC and Naval Information Warfare Center for Small Satellite Advanced Technologies | 8/19/2022 | 8/18/2024 | Non-Reimbursable | \$131,582 | ARC | SAA2-403694-2 | Space Technology | View Signed Agreement |

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|--------|--------------|--|--|----------------|-----------------|-------------------|--------------------------|--------|------------------------------------|----------------------------|-----------------------------|
| 141 | 36817 | UNITED AIRLINES | Annex One under NonReimbursable Space Act Umbrella Agreement between NASA Ames Research Center and United Airlines for Collaborative Research to Improve Aviation Safety | 4/24/2023 | 4/23/2028 | Non-Reimbursable | \$855,519 | ARC | | Aeronautics | View Signed Agreement |
| 142 | 36816 | UNITED AIRLINES | NonReimbursable Space Act Umbrella Agreement between NASA Ames Research Center and United Airlines for Collaborative Research to Improve Aviation Safety | 4/24/2023 | 4/23/2028 | Non-Reimbursable | \$0 | ARC | SAA2-403698 | Aeronautics | View Signed Agreement |
| 143 | 36780 | In Orbit Aerospace | Reimbursable Umbrella Space Act Agreement between NASA Ames Research Center and In Orbit Aerospace for Support of a Re-Entry Capsule | 6/21/2022 | 6/20/2027 | Reimbursable | \$0 | ARC | SAA2-403697 | Space Technology | View Signed Agreement |
| 144 | 36626 | Naval Information Warfare Center Pacific | Annex One under Non-Reimbursable Umbrella Interagency Agreement between NASA ARC and Naval Information Warfare Center for Small Satellite Advanced Technologies | 8/19/2022 | 8/18/2024 | Non-Reimbursable | \$574,330 | ARC | SAA2-403694-1 | Space Technology | View Signed Agreement |
| 145 | 36625 | Naval Information Warfare Center Pacific | Non-Reimbursable Umbrella Interagency Agreement between NASA ARC and Naval Information Warfare Center for Small Satellite Advanced Technologies | 8/19/2022 | 8/18/2027 | Non-Reimbursable | \$0 | ARC | SAA2-403694 | Space Technology | View Signed Agreement |
| 146 | 36607 | Ohio Department of Transportation | Annex Three under NonReimbursable Umbrella Space Act Agreement between NASA Ames Research Center and Ohio Department of Transportation for Advanced Air Mobility Technology Research and Demonstration Activities | 6/14/2022 | 3/31/2025 | Non-Reimbursable | \$418,707 | ARC | SAA2-403693-3 | Aeronautics | View Signed Agreement |
| 147 | | LAWRENCE LIVERMORE NATIONAL | Non-Reimbursable Space Act Agreement between NASA Ames Research Center and Lawrence Livermore National Security, LLC for Small Satellite Pathfinder Technology Demonstrator Monolithic Optics Payload | 7/13/2022 | 7/12/2025 | Non-Reimbursable | \$2,160,128 | ARC | SAA2-403692 | Space Technology | View Signed Agreement |
| 148 | 36552 | Zipline | Non-Reimbursable Space Act Agreement between NASA Ames Research Center and Zipline for Operation of Autonomous Fleets in US Airspace | 6/27/2022 | 6/26/2024 | Non-Reimbursable | \$1,301,427 | ARC | SAA2-403691 | Aeronautics | View Signed Agreement |
| 149 | 36546 | Command (SSC) | Non-Reimbursable Interagency Agreement between NASA ARC and United States Space Force for Development and Demonstration of the DiskSat System | 1/10/2023 | 1/9/2026 | Non-Reimbursable | \$3,023,229 | ARC | SAA2-403690 | Space Technology | View Signed Agreement |
| 150 | 36263 | | Non-Reimbursable Annex Two under Umbrella Agreement (No. 34682) between NASA Ames Research Center and Ohio Department of Transportation for Advanced Air Mobility Technology Research and Demonstration Activities | 5/11/2022 | 5/11/2025 | Non-Reimbursable | \$2,539,780 | ARC | SAA2-403685-2 | Aeronautics | View Signed Agreement |

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|--------|--------------|--|--|----------------|-----------------|-------------------|-----------------------|--------|------------------------------------|----------------------------|-----------------------------|
| 151 | 36226 | Canopy Aerospace | Annex One under Reimbursable Umbrella Space Act Agreement between NASA Ames Research Center and Canopy Aerospace for Thermal Protection System Technology Transfer | 4/5/2022 | 4/5/2025 | Reimbursable | \$930,000 | ARC | SAA2-403683-1 | Space Technology | View Signed Agreement |
| 152 | 36225 | Canopy Aerospace | Reimbursable Umbrella Space Act Agreement between NASA Ames Research Center and Canopy Aerospace for Thermal Protection System Technology Transfer | 4/5/2022 | 4/5/2027 | Reimbursable | \$0 | ARC | SAA2-403683 | Space Technology | View Signed Agreement |
| 153 | 36212 | The University of California at Berkeley | Annex One to Non-reimbursable Space Act Umbrella Agreement between NASA Ames Research Center and University of California at Berkeley for Space Exploration, Science and Engineering Research, and STEM Initiatives | 2/22/2022 | 2/22/2027 | Non-Reimbursable | \$17,962 | ARC | SAA2-403507-1 | Aeronautics | View Signed Agreement |
| 154 | 36125 | Naval Information Warfare Center Pacific | NonReimbursable Space Act Agreement between NASA Ames Research Center and Naval Information Warfare Center Pacific for NIWC Pacific/NASA Robotics Technology Initiative | 8/3/2022 | 8/2/2027 | Non-Reimbursable | \$32,055 | ARC | SAA2-403681 | Science | View Signed Agreement |
| 155 | 35946 | AIRT, Inc. | Annex One under Non-Reimbursable Umbrella Space Act Agreement between NASA Ames and AIRT, Inc (D/B/A Droneresponders) for Developing Safety Processes and Procedures to Enable Highly-Automated Aviation for Emergency Response in the National Airspace | 4/20/2022 | 4/20/2025 | Non-Reimbursable | \$2,911,122 | ARC | SAA2-403675-1 | Aeronautics | View Signed Agreement |
| 156 | 35945 | AIRT, Inc. | Non-Reimbursable Umbrella Space Act Agreement between NASA Ames Research Center and AIRT, Inc (D/B/A Droneresponders) for Developing Safety Processes and Procedures to Enable Highly-Automated Aviation for Emergency Response in the National Airspace | 4/20/2022 | 4/20/2027 | Non-Reimbursable | \$0 | ARC | SAA2-403675 | Aeronautics | View Signed Agreement |
| 157 | 35883 | Arrow Tech Associates | Reimbursable Umbrella Space Act Agreement between NASA Ames Research Center and Arrow Tech Associates for Wind Tunnel Testing | 3/9/2022 | 3/9/2027 | Reimbursable | \$0 | ARC | SAA2-403674 | Aeronautics | View Signed Agreement |
| 158 | 35849 | KAI, LLC | Reimbursable Space Act Agreement between NASA Ames and Kai, LLC for Modeling and Characterization of Low Density Flexible Thermal Protection Materials for Hypersonic Vehicles | 7/26/2022 | 7/25/2024 | Reimbursable | \$183,386 | ARC | SAA2-403672 | Space Technology | View Signed Agreement |
| 159 | 35785 | | Annex 1 under Reimbursable Umbrella Space Act Agreement between NASA Ames Research Center and Varda Space Industries for Support of a Re-Entry Capsule | | 3/30/2024 | Reimbursable | \$502,777 | ARC | SAA2-403669-1 | Space Technology | View Signed Agreement |
| 160 | 35784 | Varda Space Industries | Reimbursable Umbrella Space Act Agreement between NASA Ames Research Center and Varda Space Industries for Support of a Re-Entry Capsule | 12/28/2021 | 12/28/2026 | Reimbursable | \$0 | ARC | SAA2-403669 | Space Technology | View Signed Agreement |

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|--------|------------|---|--|----------------|-----------------|-------------------|--------------------------|--------|------------------------------------|----------------------------|-----------------------------|
| 161 | 35782 | Inversion Space | Reimbursable Umbrella Space Act Agreement between NASA Ames Research Center and Inversion Space for Support of a Re-Entry Capsule | 2/25/2022 | 2/25/2027 | Reimbursable | \$0 | ARC | SAA2-403668 | Space Technology | View Signed Agreement |
| 162 | 35739 | | Annex 1 under Non-Reimbursable Umbrella Space Act Agreement between NASA Ames Research Center and Northrop Grumman Systems Corporation for Unmanned Aircraft Systems for Cargo Transportation | 5/11/2022 | 2/29/2024 | Non-Reimbursable | \$126,000 | ARC | SAA2-403666-1 | Aeronautics | View Signed Agreement |
| 163 | 35738 | Northron Grumman Systems Corneration | Non-Reimbursable Umbrella Space Act Agreement between NASA Ames Research Center and Northrop Grumman Systems Corporation for Unmanned Aircraft Systems for Cargo Transportation | 5/11/2022 | 5/11/2027 | Non-Reimbursable | \$0 | ARC | SAA2-403666 | Aeronautics | View Signed Agreement |
| 164 | 35730 | Department of Defense Space Test Program | Non-Reimbursable Interagency Agreement between NASA Ames Research Center and Department of Defense Space Test Program for Demonstration of Small Spacecraft Technologies | 3/24/2022 | 3/24/2027 | Non-Reimbursable | \$1,583,848 | ARC | SAA2-403665 | Space Technology | View Signed Agreement |
| 165 | 35649 | JOBY AVIATION, INC | Annex 1 under Non-Reimbursable Umbrella Space Act Agreement between NASA Ames Research Center and Joby Aviation for High-Rate Composite Component Manufacturing | 6/3/2022 | 6/2/2024 | Non-Reimbursable | \$1,070,633 | ARC | SAA2-403660-1 | Aeronautics | View Signed Agreement |
| 166 | 35648 | JOBY AVIATION, INC | Non-Reimbursable Umbrella Space Act Agreement between NASA Ames Research Center and Joby Aviation for High-Rate Composite Component Manufacturing | 6/3/2022 | 6/2/2027 | Non-Reimbursable | \$0 | ARC | SAA2-403660 | Aeronautics | View Signed Agreement |
| 167 | 35577 | Lawrence Livermore National Security, LLC | Annex Three under Reimbursable Umbrella Space Act Agreement between NASA Ames Research Center and Lawrence Livermore National Security, LLC for Aerospace Research and Testing Activities | 9/2/2022 | 9/2/2024 | Reimbursable | \$310,907 | ARC | SAA2-403582-3 | Aeronautics | View Signed Agreement |
| 168 | 35574 | LAWRENCE LIVERMORE NATIONAL | NonReimbursable Space Act Agreement between NASA ARC and Lawrence Livermore National Security, LLC for Supporting High Performance Computing systems | 12/15/2021 | 12/15/2026 | Non-Reimbursable | \$30,797 | ARC | SAA2-403658 | Science | View Signed Agreement |
| 169 | 35475 | Northrop Grumman Corporation | Non-Reimbursable Space Act Agreement Between NASA Ames Research Center and the Northrop Grumman Corporation for Prognostics and Health Management | 1/17/2023 | 1/16/2025 | Non-Reimbursable | \$10,332 | ARC | SAA2-403657 | Aeronautics | View Signed Agreement |
| 170 | 35422 | UNITED AIRLINES | Non-Reimbursable Space Act Agreement between NASA Ames Research Center and United Airlines for Digital Information Platform (DIP) Flight Operators Partnership | 1/4/2023 | 1/3/2028 | Non-Reimbursable | \$2,502,449 | ARC | SAA2-403735 | Aeronautics | View Signed Agreement |

| ROW NO | . PAM ID NO. | PARTNER NAME | TITLE/PURPOSE | SIGNATURE DATE | EXPIRATION DATE | TYPE OF AGREEMENT | TOTAL ESTIMATED VALUE | CENTER | CENTER TRACKING NUMBER (IF ANY) | EXPECTED AGENCY BENEFIT(S) | LINK TO SIGNED AGREEMENT |
|--------|--------------|--|---|----------------|-----------------|-------------------|--------------------------|--------|------------------------------------|----------------------------------|-----------------------------|
| 171 | 35404 | Radian Aerospace | Annex One under Reimbursable Space Act Umbrella Agreement between NASA Ames Research Center and Radian Aerospace, Inc. for Supporting Radian Aerospace Commercial Hypersonic Vehicle Development | 12/28/2021 | 12/28/2024 | Reimbursable | \$630,493 | ARC | SAA2-403654-1 | Human Exploration and Operations | View Signed Agreement |
| 172 | 35403 | Radian Aerospace | Reimbursable Space Act Umbrella Agreement between NASA Ames Research Center and Radian Aerospace, Inc. for Supporting Radian Aerospace Commercial Hypersonic Vehicle Development | 12/28/2021 | 12/28/2026 | Reimbursable | \$0 | ARC | SAA2-403654 | Human Exploration and Operations | View Signed Agreement |
| 173 | 35300 | Stratolaunch, Inc. | Annex One under Reimbursable Umbrella Space Act Agreement between NASA Ames Research Center and Stratolaunch, LLC for Supporting Stratolaunch Commercial Hypersonic Vehicle Development | 3/1/2022 | 3/1/2025 | Reimbursable | \$980,000 | ARC | SAA2-403646-1 | Human Exploration and Operations | View Signed Agreement |
| 174 | 35299 | Ctusts lavus als lass | Reimbursable Umbrella Space Act Agreement between NASA Ames Research Center and Stratolaunch, LLC for Supporting Stratolaunch Commercial Hypersonic Vehicle Development | 3/1/2022 | 3/1/2027 | Reimbursable | \$0 | ARC | SAA2-403646 | Human Exploration and Operations | View Signed Agreement |
| 175 | 35291 | The Boeing Company | Annex One under Non-Reimbursable Umbrella Space Act Agreement between NASA ARC and The Boeing Company to Explore Aircraft Autonomy and Autonomous Systems | 5/25/2022 | 5/24/2024 | Non-Reimbursable | \$125,828 | ARC | SAA2-403647-1 | Aeronautics | View Signed Agreement |
| 176 | 35290 | The Boeing Company | Non-Reimbursable Umbrella Space Act Agreement between NASA ARC and The Boeing Company to Explore Aircraft Autonomy and Autonomous Systems | 5/25/2022 | 5/24/2027 | Non-Reimbursable | \$0 | ARC | SAA2-403647 | Aeronautics | View Signed Agreement |
| 177 | 35266 | Dallas/Faut Manthalistania tianal Aineat Daard | Non-Reimbursable Space Act Agreement between NASA Ames Research Center and Dallas/Fort Worth International Airport Board for Data Sharing for NextGen Research and Development | 9/29/2021 | 9/29/2026 | Non-Reimbursable | \$338,769 | ARC | SAA2-403645 | Aeronautics | View Signed Agreement |
| 178 | 34898 | DYNETICS CORP | Reimbursable Space Act Umbrella Agreement between NASA Ames Research Center and the Dynetics, Inc. for Wind Tunnel Testing | 10/12/2021 | 10/12/2026 | Reimbursable | \$0 | ARC | SAA2-403636 | Aeronautics | View Signed Agreement |
| 179 | 34811 | Skydio, Inc. | Non-Reimbursable Space Act Umbrella Agreement between NASA Ames Research Center and the Skydio Inc. for Autonomous UAS Technology Research and Development | | 9/1/2026 | Non-Reimbursable | \$0 | ARC | SAA2-403630 | Aeronautics | View Signed Agreement |
| 180 | 34677 | Microsoft Corporation | Non-Reimbursable Space Act Umbrella Agreement between NASA Ames Research Center and Microsoft Corporation for Cloud-Base Simulation Platform Prototype | | 7/16/2026 | Non-Reimbursable | \$0 | ARC | SAA2-403624 | Aeronautics | View Signed Agreement |

| ROW NO | . PAM ID NO. | PARTNER NAME | TITLE/PURPOSE | SIGNATURE DATE | EXPIRATION DATE | TYPE OF AGREEMENT | TOTAL ESTIMATED VALUE | CENTER | CENTER TRACKING NUMBER (IF ANY) | EXPECTED AGENCY BENEFIT(S) | LINK TO SIGNED AGREEMENT |
|--------|--------------|---------------------------------|--|----------------|-----------------|-------------------|-----------------------|--------|------------------------------------|------------------------------------|-----------------------------|
| 181 | 34539 | The Boeing Company | Non-Reimbursable Space Act Agreement between NASA ARC and Boeing Company for Computational Assessment and Wind Tunnel Data Correlation for a Low Boom Demonstrator Concept | 9/27/2021 | 9/27/2024 | Non-Reimbursable | \$45,541 | ARC | SAA2-403620 | Aeronautics | View Signed Agreement |
| 182 | 34521 | Avision, Inc. | Nonreimbursable Space Act Agreement between NASA Ames Research Center and Avision, Inc for Scalable Traffic Management for Emergency Response Operations (STEReO) | 4/27/2021 | 4/27/2026 | Non-Reimbursable | \$1,273,460 | ARC | SAA2-403618 | Aeronautics | View Signed Agreement |
| 183 | 34520 | AMERICAN AIRLINES, INC | Nonreimbursable Space Act Agreement between NASA ARC and American Airlines, Inc for Human Factors Research | 12/28/2021 | 12/28/2026 | Non-Reimbursable | \$2,940,419 | ARC | SAA2-403621 | Aeronautics | View Signed Agreement |
| 184 | 34515 | University of Minnesota | Annex One under Reimbursable Umbrella Space Act Agreement between NASA Ames Research Center and The University of Minnesota for Space Exploration, Science, and Engineering Research, and STEM Initiative | 7/12/2022 | 7/11/2024 | Reimbursable | \$150,000 | ARC | SAA2-403617-1 | Space Technology | View Signed Agreement |
| 185 | 34514 | University of Minnesota | Reimbursable Umbrella Space Act Agreement between NASA Ames Research Center and The University of Minnesota for Space Exploration, Science, and Engineering Research, and STEM Initiative | 7/12/2022 | 7/11/2027 | Reimbursable | \$0 | ARC | SAA2-403617 | Space Technology | View Signed Agreement |
| 186 | 34471 | General Electric Company | Annex One under Non-Reimbursable Umbrella Space Act Agreement between NASA Ames Research Center and General Electric Company for Safety Assurance of Flight Critical Systems | 5/20/2021 | 5/20/2024 | Non-Reimbursable | \$475,075 | ARC | SAA2-403615-1 | Aeronautics | View Signed Agreement |
| 187 | 34470 | General Electric Company | Non-Reimbursable Umbrella Space Act Agreement between NASA Ames Research Center and General Electric Company for Safety Assurance of Flight Critical Systems | 5/20/2021 | 5/20/2026 | Non-Reimbursable | \$0 | ARC | SAA2-403615 | Aeronautics | View Signed Agreement |
| 188 | 34243 | Founder Institute, Incorporated | Annex Two to Nonreimbursable Space Act Umbrella Agreement between the National Aeronautics and Space Administration Ames Research Center and Founder Institute, Incorporated for Phase 2 - Founder Institute Advanced Technology Accelerator Program | 5/20/2021 | 11/19/2024 | Non-Reimbursable | \$21,502 | ARC | SAA2-403517-2 | Space Technology | View Signed Agreement |
| 189 | 34095 | Chabot Space & Science Center | Annex One to Non-Reimbursable Umbrella Interagency Agreement between NASA ARC and the Chabot Space and Science Center for Framework on Regional Partnership | 2/8/2021 | 2/8/2026 | Non-Reimbursable | \$2,264,336 | ARC | SAA2-403607-1 | Education and/or Public Engagement | View Signed Agreement |
| 190 | 34094 | Chahat Space & Sajance Contar | Non-Reimbursable Umbrella Interagency Agreement between NASA Ames Research Center and the Chabot Space and Science Center for Framework on Regional Partnership | 2/8/2021 | 2/8/2026 | Non-Reimbursable | \$0 | ARC | SAA2-403607 | Education and/or Public Engagement | View Signed Agreement |

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|--------|--------------|---|---|----------------|-----------------|-------------------|----------------------------|--------|------------------------------------|--|-----------------------------|
| 191 | 33288 | Rocket Lab USA | Non-Reimbursable Umbrella Space Act Agreement between NASA ARC and Rocket Lab for Space Science, Earth Science, and Engineering Research | 10/14/2020 | 10/14/2025 | Non-Reimbursable | \$0 | ARC | SAA2-403591 | Human Exploration and Operations, Science, Space Technology | View Signed Agreement |
| 192 | 33215 | United States Forest Service | Non-Reimbursable Interagency Agreement between NASA Ames Research Center and United States Forest Service for Scalable Traffic Management for Emergency Response Operations (STEREO) | 5/11/2021 | 5/11/2026 | Non-Reimbursable | \$1,869,333 | ARC | SAA2-403590 | Aeronautics | View Signed Agreement |
| 193 | 33148 | Stanford Blood Center | Non-Reimbursable Space Act Agreement between NASA Ames Research Center and Stanford Blood Center for Blood Drives | 10/6/2020 | 10/6/2025 | Non-Reimbursable | \$12,568 | ARC | SAA2-403588 | Education and/or Public Engagement | View Signed Agreement |
| 194 | 33082 | Virgin Orbit | Reimbursable Umbrella Space Act Agreement between NASA Ames Research Center and Virgin Orbit, LLC for Supporting the Maturation of Virgin Orbit's Air-Launched Vehicle System | 10/6/2020 | 10/6/2025 | Reimbursable | \$0 | ARC | SAA2-403586 | Human Exploration and Operations | View Signed Agreement |
| 195 | 33060 | Sentinel Healthcare Corporation | Nonreimbursable Umbrella Space Act Agreement between NASA Ames Research Center and Sentinel Healthcare for a Data-Driven Pandemic Response Management System (COVID-19) | 9/8/2020 | 9/8/2025 | Non-Reimbursable | \$0 | ARC | SAA2-403585 | Space Technology | View Signed Agreement |
| 196 | 32993 | Lawrence Livermore National Security, LLC | Reimbursable Umbrella Space Act Agreement between NASA Ames Research Center and Lawrence Livermore National Security, LLC for Aerospace Research and Testing Activities | 1/13/2021 | 1/13/2026 | Reimbursable | \$0 | ARC | SAA2-403582 | Science, Space Technology | View Signed Agreement |
| 197 | 32992 | Purdue University | Annex One under Non-Reimbursable Umbrella Space Act Agreement between NASA Ames Research Center and Purdue University for Research and Development in Aerospace, Earth Science, and Aviation Systems | 12/15/2020 | 12/15/2025 | Non-Reimbursable | \$96,476 | ARC | SAA2-403581-1 | Aeronautics | View Signed Agreement |
| 198 | 32991 | Purdue University | Non-Reimbursable Umbrella Space Act Agreement between NASA Ames Research Center and Purdue University for Research and Development in Aerospace, Earth Science, and Aviation Systems | 12/15/2020 | 12/15/2025 | Non-Reimbursable | \$0 | ARC | SAA2-403581 | Aeronautics, Science | View Signed Agreement |
| 199 | 32905 | California Polytechnic State University | Annex One to Non-reimbursable Umbrella Space Act Agreement between NASA Ames Research Center and California Polytechnic State University for Space Exploration, Science and Engineering Research, and STEM Initiatives | 6/20/2021 | 6/20/2024 | Non-Reimbursable | \$96,152 | ARC | SAA2-403539-1 | Space Technology | View Signed Agreement |
| 200 | | California Department of Forestry and Fire Protection | Non-Reimbursable Space Act Agreement between NASA Ames Research Center and California Department of Forestry and Fire Protection (CAL FIRE) for Scalable Traffic Management for Emergency Response Operation (STEReO) | 4/5/2021 | 4/5/2026 | Non-Reimbursable | \$1,892,439 | ARC | SAA2-403576 | Aeronautics, Human Exploration and Operations | View Signed Agreement |

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| 201 | 32699 | University of Colorado Boulder | Annex 1 to the Non-Reimbursable Umbrella Space Act Agreement between NASA Ames Research Center and University of Colorado for Exploration, Development, and Testing of High Temperature Materials for Hypersonics | 4/19/2021 | 4/19/2026 | Non-Reimbursable | \$186,242 | ARC | SAA2-403529-1 | Space Technology | View Signed Agreement |
| 202 | 32613 | Khaled bin Sultan Living Oceans Foundation | Non-Reimbursable Space Act Agreement between NASA Ames and Khaled bin Sultan Living Oceans Foundation for Sharing Data to Improve Benthic Habitat Map | 5/15/2021 | 5/15/2026 | Non-Reimbursable | \$126,200 | ARC | SAA2-403568 | Science | View Signed Agreement |
| 203 | 32577 | Delta Air Lines, Inc. | Non-Reimbursable Space Act Agreement between NASA Ames and Delta Airlines, Inc. for Human Factors Fatigue Research | 11/24/2020 | 11/24/2025 | Non-Reimbursable | \$740,892 | ARC | SAA2-403566 | Aeronautics | View Signed Agreement |
| 204 | 32574 | VERDIGRIS TECHNOLOGIES, INC | Nonreimbursable Space Act Agreement between Verdigris Technologies, Inc. and NASA Ames Research Center for Advanced Sensing and Health Management for Sustainable Habitats | 1/27/2021 | 1/27/2026 | Non-Reimbursable | \$189,758 | ARC | SAA2-403565 | Human Exploration and Operations | View Signed Agreement |
| 205 | 32524 | San Jose State University | Annex One under Non-reimbursable Umbrella Space Act Agreement between NASA Ames Research Center and San Jose State University for Space Exploration, Science and Engineering Research, and STEM Initiatives | 2/18/2021 | 2/18/2026 | Non-Reimbursable | \$95,926 | ARC | SAA2-403536-1 | Aeronautics, Education and/or Public Engagement | View Signed Agreement |
| 206 | 32521 | Gulfstream Aerospace Corporation | Reimbursable Umbrella Space Act Agreement between NASA Ames and Gulfstream Aerospace Corporation for Wind Tunnel Testing | 8/15/2021 | 8/15/2026 | Reimbursable | \$0 | ARC | SAA2-403564 | Aeronautics | View Signed Agreement |
| 207 | 32517 | MOFFETT FIELD HISTORICAL SOCIETY | Reimbursable Space Act Agreement between NASA Ames Research Center and Moffett Field Historical Society to Support the History of Moffett Field | 6/29/2020 | 6/29/2025 | Reimbursable | \$282,542 | ARC | SAA2-403562 | Education and/or Public Engagement | View Signed Agreement |
| 208 | 32345 | County of Santa Clara Office of the Sheriff | Reimbursable Space Act Agreement between NASA Ames and the County of Santa Clara Office of the Sheriff for Utilization of Moffett Field for Law Enforcement and Emergency Response Capabilities | 10/1/2020 | 9/30/2025 | Reimbursable | \$52,443 | ARC | SAA2-403555 | Institutional and Mission Support | View Signed Agreement |
| 209 | 32295 | American Airlines | Annex One under Nonreimbursable Umbrella Space Act Agreement between NASA Ames Research Center and American Airlines for Collaborative Research to Improve Aviation Safety | 3/1/2021 | 3/1/2024 | Non-Reimbursable | \$1,789,221 | ARC | SAA2-403551-1 | Aeronautics | View Signed Agreement |
| 210 | 32294 | American Airlines | NONREIMBURSABLE SPACE ACT UMBRELLA AGREEMENT BETWEEN THE NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER AND AMERICAN AIRLINES FOR COLLABORATIVE RESEARCH TO IMPROVE AVIATION SAFETY | | 3/1/2026 | Non-Reimbursable | \$0 | ARC | SAA2-403551 | Aeronautics | View Signed Agreement |

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| 211 | 32210 | | Non-reimbursable Umbrella Space Act Agreement between NASA Ames Research Center and San Jose State University for Space Exploration, Science and Engineering Research, and STEM Initiatives | 2/18/2021 | 2/18/2026 | Non-Reimbursable | \$0 | ARC | SAA2-403536 | Aeronautics, Human Exploration and Operations, Science, Space Technology | View Signed Agreement |
| 212 | 32209 | California Polytechnic State University | Non-reimbursable Umbrella Space Act Agreement between NASA Ames Research Center and California Polytechnic State University for Space Exploration, Science and Engineering Research, and STEM Initiatives | 6/20/2021 | 6/20/2026 | Non-Reimbursable | \$0 | ARC | SAA2-403539 | Aeronautics, Human Exploration and Operations, Science, Space Technology | View Signed Agreement |
| 213 | 32187 | LOCKHEED MARTIN | Reimbursable Space Act Agreement between NASA ARC and Lockheed Martin Corporation for Enhanced Heating Sample Testing at the NASA Ames IHF-LEAF | 5/1/2020 | 10/31/2024 | Reimbursable | \$2,457,134 | ARC | SAA2-403549 | Human Exploration and Operations, Space Technology | View Signed Agreement |
| 214 | 31973 | NISSAN NORTH AMERICA, INC | Annex 1 between NASA ARC and Nissan North America for Distributed Robotics Technology and Integrated Systems | 6/12/2020 | 6/11/2025 | Reimbursable | \$2,168,404 | ARC | SAA2-403545-1 | Space Technology | View Signed Agreement |
| 215 | 31972 | NISSAN NORTH AMERICA, INC | Reimbursable Umbrella Space Act Agreement between NASA ARC and Nissan North America for Research and Development in Robotic Technologies | 6/12/2020 | 6/12/2025 | Reimbursable | \$0 | ARC | SAA2-403545 | Human Exploration and Operations | View Signed Agreement |
| 216 | 31897 | Arizona State University | Annex One to NRUSAA between NASA ARC and Arizona State University for Technology Transfer Academia Infusion | 5/22/2020 | 5/21/2025 | Non-Reimbursable | \$62,883 | ARC | SAA2-403530-1 | Technology Transfer | View Signed Agreement |
| 217 | 31896 | Arizona State University | Non-reimbursable Umbrella Space Act Agreement between NASA Ames Research Center and Arizona State University for Space Exploration, Science and Engineering Research, and STEM Initiatives | 5/21/2020 | 5/21/2025 | Non-Reimbursable | \$0 | ARC | SAA2-403530 | Aeronautics, Human Exploration and Operations, Science, Space Technology, Education and/or Public Engagement, Technology Transfer | View Signed Agreement |
| 218 | 31890 | UNIVERSITY OF COLORADO BOULDER | Non-reimbursable Umbrella Space Act Agreement between NASA Ames Research Center and the University of Colorado at Boulder for Space Exploration, Science and Engineering Research, and STEM Initiatives | 4/19/2021 | 4/19/2026 | Non-Reimbursable | \$0 | ARC | SAA2-403529 | Aeronautics, Human Exploration and Operations, Science, Space Technology | View Signed Agreement |
| 219 | 31848 | SPACE SYSTEMS LORAL, LLC | Annex 1 to Nonreimbursable Umbrella Space Act Agreement between NASA ARC and Space Systems Loral for Robotic and Spacecraft Technology Research | | 4/16/2025 | Non-Reimbursable | \$62,229 | ARC | SAA2-403528-1 | Space Technology | View Signed Agreement |
| 220 | 31847 | SPACE SYSTEMS LORAL, LLC | Reimbursable Umbrella Space Act Agreement between NASA ARC and Space Systems Loral for Robotic and Spacecraft Technology Research | 4/16/2020 | 4/16/2025 | Non-Reimbursable | \$0 | ARC | SAA2-403528 | Space Technology | View Signed Agreement |

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| 221 | | STATE OF CALIFORNIA, Department of Parks | Reimbursable Space Act Agreement between NASA Ames Research Center and State of California, Department of Parks, Division of Boating and Waterways for Utilization of Remote Sensing Tools in Aquatic Weed Management in the California Delta | 2/19/2021 | 2/19/2024 | Reimbursable | \$1,765,344 | ARC | SAA2-403526 | Science | View Signed Agreement |
| 222 | 31447 | Founder Institute, Incorporated | Nonreimbursable Space Act Umbrella Agreement between the National Aeronautics and Space Administration Ames Research Center and Founder Institute, Incorporated for the Fostering of Space Entrepreneurship | 11/19/2019 | 11/19/2024 | Non-Reimbursable | \$0 | ARC | SAA2-403517 | Technology Transfer | View Signed Agreement |
| 223 | 31359 | Northrop Grumman Corporation | REIMBURSABLE SPACE ACT UMBRELLA AGREEMENT No.31359/SAA2-403514 BETWEEN NASA ARC AND NORTHROP GRUMMAN CORPORATION FOR WIND TUNNEL TESTING | 1/20/2020 | 1/20/2025 | Reimbursable | \$0 | ARC | SAA2-403514 | Aeronautics | View Signed Agreement |
| 224 | 31057 | The University of California at Berkeley | Non-reimbursable Space Act Umbrella Agreement between NASA Ames Research Center and University of California at Berkeley for Space Exploration, Science and Engineering Research, and STEM Initiatives | 2/22/2022 | 2/22/2027 | Non-Reimbursable | \$0 | ARC | SAA2-403507 | Space Technology | View Signed Agreement |
| 225 | 31044 | NTT Research, Inc. | Reimbursable Space Act Agreement between the National Aeronautics and Space Administration Ames Research Center and NTT Research, Inc. to Benchmark Coherent Ising Machines | 11/12/2019 | 11/12/2024 | Reimbursable | \$750,000 | ARC | SAA2-403506 | Science | View Signed Agreement |
| 226 | 30884 | San Francisco International Airport | Reimbursable Umbrella Space Act Agreement between The National Aeronautics and Space Administration Ames Research Center and San Francisco International Airport City and County of San Francisco for Research and Technologies for Increasing Airport Surface Capacity and Airfield Efficiency. | 7/2/2019 | 7/2/2024 | Reimbursable | \$0 | ARC | SAA2-403426 | Aeronautics | View Signed Agreement |
| 227 | 30834 | Advanced Technologies Group, Inc. | Reimbursable Umbrella Space Act Agreement between NASA ARC and Advanced Technologies Group, Inc. for Wind Tunnel Testing | 12/20/2019 | 12/20/2024 | Reimbursable | \$0 | ARC | SAA2-403500 | Aeronautics | View Signed Agreement |
| 228 | 30729 | UNIVERSITY OF WASHINGTON | Reimbursable Space Act Umbrella Agreement between the National Aeronautics and Space Administration Ames Research Center and the University of Washington for Hardware Development and Testing | 8/27/2019 | 8/27/2024 | Reimbursable | \$0 | ARC | SAA2-403496 | Space Technology | View Signed Agreement |
| 229 | 30452 | Leland Stanford Junior University | Reimbursable Umbrella Space Act Agreement between NASA Ames Research Center and Leland Stanford Junior University for Aerospace Technology Research, Testing, and Development | 12/16/2020 | 12/16/2025 | Reimbursable | \$0 | ARC | SAA2-403497 | Education and/or Public Engagement | View Signed Agreement |
| 230 | 30244 | GE Flight Efficiency Services, Inc. | Non-Reimbursable Space Act Umbrella Agreement Between the National Aeronautics and Space Administration Ames Research Center and GE Flight Efficiency Services, Inc. for Collaborative Development and Use of NASA ATM-X Testbed for Integrated ATM Research | 9/12/2019 | 9/12/2024 | Non-Reimbursable | \$0 | ARC | SAA2-403486 | Aeronautics | View Signed Agreement |

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| 231 | 29398 | SkyTran Inc. | Reimbursable Umbrella Space Act Agreement between NASA Ames Research Center and Skytran, Inc. for Personal Rapid Transport System | 7/2/2021 | 7/2/2026 | Reimbursable | \$0 | ARC | SAA2-403462 | Aeronautics | View Signed Agreement |
| 232 | 29380 | The Boeing Company | Reimbursable Umbrella Space Act Agreement between NASA Ames Research Center and the Boeing Company for Wind Tunnel Testing | 4/27/2020 | 4/27/2025 | Reimbursable | \$0 | ARC | SAA2-403460 | Aeronautics | View Signed Agreement |
| 233 | 27616 | Blue Origin, LLC | Reimbursable Umbrella Space Act Agreement Between the National Aeronautics and Space Administration Ames Research Center and Blue Origin, LLC to Support Blue Origin Commercial Space Transportation Development | 7/13/2018 | 4/13/2024 | Reimbursable | \$0 | ARC | SAA2-403403 | Human Exploration and Operations | View Signed Agreement |
| 234 | 39228 | Telepath Systems | 2023 NASA Glenn Aviation Day | 8/11/2023 | 8/11/2024 | Non-Reimbursable | \$168,447 | GRC | SAA3-1775 | Aeronautics | View Signed Agreement |
| 235 | 39162 | Martina Dimoska | Annex No. 2 under SAA2-403770 Umbrella Agreement in Support of 2023 International Space Apps Challenge | 9/8/2023 | 9/8/2024 | Non-Reimbursable | \$3,332 | GRC | SAA2-403770-02 | Science | View Signed Agreement |
| 236 | 38960 | geCKo Materials, PBC | Annex No. 02 to SAA8-2338858 for Space Environmental Effects and Materials Testing-Atomic Oxygen | 7/28/2023 | 7/28/2024 | Reimbursable | \$13,514 | GRC | SAA8-2338858-02 | Space Technology | View Signed Agreement |
| 237 | 38937 | National Institute of Standards and Technolog | y Quantum Metrology Research Between GRC and NIST | 9/18/2023 | 9/18/2025 | Non-Reimbursable | \$25,478 | GRC | SAA3-1771 | Human Exploration and Operations, Science | View Signed Agreement |
| 238 | 38891 | The Ohio State University | Aerospace Materials Research and Characterization | 8/7/2023 | 8/7/2025 | Non-Reimbursable | \$83,235 | GRC | SAA3-1768 | Aeronautics | View Signed Agreement |
| 239 | 38871 | Northrop Grumman | Annex No. 04 under SAA3-1724 for Support for Flight Cathode Heater and Thruster Acceptance Testing | 8/15/2023 | 8/15/2025 | Reimbursable | \$281,349 | GRC | SAA3-1724-04 | Science, Space Technology | View Signed Agreement |
| 240 | 38776 | The Boeing Company | Annex to Aerospace Research Development | 8/7/2023 | 8/7/2025 | Non-Reimbursable | \$32,056 | GRC | SAA1-35361-04 | Aeronautics | View Signed Agreement |

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| 241 | 38680 | gravityLab LLC | Partial-g Investigations in LEO using Microsatellites | 9/6/2023 | 9/6/2027 | Non-Reimbursable | \$376,872 | GRC | SAA3-1766 | Human Exploration and Operations, Science | View Signed Agreement |
| 242 | 38482 | BLUE ORIGIN, LLC | Annex No. 34 to SAA-EA-20-29343 for Development and Production of GRX-810 Powder | 5/5/2023 | 5/5/2024 | Reimbursable | \$19,085 | GRC | SAA-EA-20-29343-34 | Space Technology | View Signed Agreement |
| 243 | 38385 | Miami University | The Conservation Genetic Assessment Of Smooth Greensnakes (Opheodrys vernalis) At NASA Glenn Research Center (GRC) At Neil A. Armstrong Test Facility (GRC-ATF) | 6/26/2023 | 6/24/2028 | Non-Reimbursable | \$19,610 | GRC | SAA3-1759 | Institutional and Mission Support | View Signed Agreement |
| 244 | 38254 | The Regents of the University of Colorado | Annex 2 under SAA3-1753 Multi-Asteroid eXplorer (MAX) Electric Propulsion String Compatibility Testing | 9/4/2023 | 9/4/2024 | Reimbursable | \$310,485 | GRC | SAA3-1753-02 | Space Technology | View Signed Agreement |
| 245 | 38241 | BLUE ORIGIN, LLC | Annex to SAA3-1609, Cargo Lander Fuel Cell Testing | 5/1/2023 | 5/1/2024 | Reimbursable | \$413,467 | GRC | SAA3-1609-03 | Space Technology | View Signed Agreement |
| 246 | 38094 | LOCKHEED MARTIN | Lunar Spring Tire Testing at GRC | 3/13/2023 | 3/13/2026 | Reimbursable | \$589,838 | GRC | SAA8-2134592-08 | Space Technology | View Signed Agreement |
| 247 | 38078 | The Regents of the University of Colorado | Annex No. 1 under SAA3-1753 Multi-Asteroid eXplorer (MAX) Mission Support Umbrella Agreement for the Regents of the University of Colorado | | 8/3/2024 | Reimbursable | \$171,054 | GRC | SAA3-1753-01 | Science | View Signed Agreement |
| 248 | 38077 | The Regents of the University of Colorado | Multi-Asteroid eXplorer (MAX) Mission Support Umbrella Agreement for the Regents of the University of Colorado | 8/3/2023 | 8/1/2028 | Reimbursable | \$0 | GRC | SAA3-1753 | Science | View Signed Agreement |
| 249 | 37847 | Space Exploration Technologies Corp. | Annex Number 3 to SpaceX Umbrella Agreement SAA3-1708 | 12/16/2022 | 12/16/2023 | Reimbursable | \$72,409 | GRC | SAA3-1708-03 | Human Exploration and Operations | View Signed Agreement |
| 250 | 37690 | Teraphysics Corporation | Characterization of Microfabricated E-Band Helical Traveling- Wave Tube Amplifier | 2/13/2023 | 8/13/2024 | Non-Reimbursable | \$72,548 | GRC | SAA3-1748 | Space Technology | View Signed Agreement |

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| 251 | 37686 | Northrop Grumman | Annex 2 under Umbrella Agreement SAA3-1724 Supporting Development of Northrop Grumman's 1 kW Hall-Effect Thruster | 2/20/2023 | 2/20/2024 | Reimbursable | \$215,111 | GRC | SAA3-1724-02 | Science | View Signed Agreement |
| 252 | 37541 | Lunar Resources, Inc | Developing, Implementing, and Operating Lunar In-Situ Photovoltaic Power Grids | 3/15/2023 | 3/15/2025 | Non-Reimbursable | \$479,092 | GRC | SAA3-1756 | Human Exploration and Operations | View Signed Agreement |
| 253 | 37484 | General Electric Company | Burner Rig Material Durability | 2/26/2023 | 2/26/2024 | Reimbursable | \$94,287 | GRC | SAA3-1747 | Aeronautics | View Signed Agreement |
| 254 | 37391 | Microsoft Corporation | Lithium-lon (Li) Battery Testing | 7/16/2023 | 7/16/2027 | Non-Reimbursable | \$643,981 | GRC | SAA3-1745 | Human Exploration and Operations, Space Technology | View Signed Agreement |
| 255 | 37298 | GENERAL ELECTRIC COMPANY | Evaluation of Alternative Fuels on Contrail Formation in the GRC Particulate Aerosol Laboratory (PAL) | 4/25/2023 | 4/25/2025 | Reimbursable | \$215,066 | GRC | SAA3-1744 | Aeronautics | View Signed Agreement |
| 256 | 37157 | Ohio Department of Transportation | Annex No. 05 for Advanced Air Mobility Technology Research and Demonstration Activities | 12/23/2022 | 12/23/2024 | Non-Reimbursable | \$62,654 | GRC | SAA3-34682-05 | Aeronautics | View Signed Agreement |
| 257 | 37141 | Wright Electric, LLC | NEAT Wright Electric Motor Test | 6/8/2023 | 6/8/2026 | Non-Reimbursable | \$1,638,899 | GRC | SAA3-1742 | Aeronautics | View Signed Agreement |
| 258 | 37051 | Massachusetts Institute of Technology | Evaluation of Radiation Hardiness of Silicon Carbide Piezoresistive Pressure Sensors | 3/15/2023 | 3/15/2025 | Non-Reimbursable | \$10,188 | GRC | SAA3-1746-01 | Space Technology | View Signed Agreement |
| 259 | 37050 | Massachusetts Institute of Technology | Evaluation of Radiation Effects on NASA GRC Silicon Carbide Microsystems and Physical Sensors | 3/15/2023 | 3/13/2028 | Non-Reimbursable | \$0 | GRC | SAA3-1746 | Space Technology | View Signed Agreement |
| 260 | 36925 | The University of Akron | Graduate Traineeship on Advances in Materials Science Using Machine Learning | 9/28/2022 | 9/27/2027 | Non-Reimbursable | \$124,156 | GRC | SAA3-1739 | Aeronautics | View Signed Agreement |

| ROW | NO. PAM ID NO. | PARTNER NAME | TITLE/PURPOSE | SIGNATURE DATE | EXPIRATION DATE | TYPE OF AGREEMENT | TOTAL ESTIMATED VALUE | CENTER | CENTER TRACKING NUMBER (IF ANY) | EXPECTED AGENCY BENEFIT(S) | LINK TO SIGNED AGREEMENT |
|-----|----------------|---------------------------------------|---|----------------|-----------------|-------------------|--------------------------|--------|------------------------------------|----------------------------|-----------------------------|
| 261 | 36691 | SolarSpace LLC | Licensee Consultation to Convert Concentrated Solar Power into Energy via Thermoacoustics | 7/9/2022 | 7/9/2024 | Reimbursable | \$8,519 | GRC | SAA3-1733 | Aeronautics | View Signed Agreement |
| 262 | 36568 | Inmarsat Government, Inc. | Communications Services Project Funded Space Act Agreement for Inmarsat Government, Inc. | 5/31/2022 | 5/30/2027 | Funded | \$28,628,731 | GRC | NNC2236568 | Space Technology | View Signed Agreement |
| 263 | 36567 | Telesat U.S. Services, LLC | Communications Services Project Funded Space Act Agreement for Telesat U.S. Services, LLC | 5/31/2022 | 5/30/2027 | Funded | \$30,654,565 | GRC | NNC2236567 | Space Technology | View Signed Agreement |
| 264 | 36565 | KGS, LLC | Communications Services Project Funded Space Act Agreement for KGS, LLC. | 5/31/2022 | 5/30/2027 | Funded | \$67,000,000 | GRC | NNC2236565 | Space Technology | View Signed Agreement |
| 265 | 36564 | Space Exploration Technologies, Corp. | Communications Services Project Funded Space Act Agreement for Space Exploration Technologies, Corp. | 5/31/2022 | 5/30/2027 | Funded | \$69,955,973 | GRC | NNC2236564 | Space Technology | View Signed Agreement |
| 266 | 36563 | SES Government Solutions, Inc. | Communications Services Project | 5/31/2022 | 5/30/2027 | Funded | \$28,963,792 | GRC | NNC2236563 | Space Technology | View Signed Agreement |
| 267 | 36547 | Viasat, Inc. | Communications Services Project | 5/31/2022 | 5/30/2027 | Funded | \$53,345,718 | GRC | NNC2236547 | Space Technology | View Signed Agreement |
| 268 | 36507 | Aerojet Rocketdyne, Inc. | Annex No. 7 under SAA3-1639 Upper Stage Engine Manufacturing, Testing, and Evaluation Umbrella Agreement for Aerojet Rocketdyne, Inc. | 6/4/2022 | 6/4/2024 | Reimbursable | \$567,288 | GRC | SAA3-1639-7 | Space Technology | View Signed Agreement |
| 269 | 36406 | UNIVERSITY OF ARIZONA | Perovskite Stress Analysis for Lunar Applications | 7/31/2022 | 7/31/2025 | Non-Reimbursable | \$24,044 | GRC | SAA3-1725 | Space Technology | View Signed Agreement |
| 270 | 36355 | RELATIVITY SPACE, INC. | Production of Alumina Strengthened Cu Alloy | 2/20/2023 | 2/20/2025 | Non-Reimbursable | \$46,915 | GRC | SAA3-1723-01 | Space Technology | View Signed Agreement |

| ROW N | D. PAM ID NO. | PARTNER NAME | TITLE/PURPOSE | SIGNATURE DATE | EXPIRATION DATE | TYPE OF AGREEMENT | TOTAL ESTIMATED VALUE | CENTER | CENTER TRACKING NUMBER (IF ANY) | EXPECTED AGENCY BENEFIT(S) | LINK TO SIGNED AGREEMENT |
|-------|---------------|--|---|----------------|-----------------|-------------------|--------------------------|--------|------------------------------------|--|-----------------------------|
| 271 | 36354 | RELATIVITY SPACE, INC. | Exploration of Oxide Dispersion Strengthened Copper Alloys | 2/20/2023 | 2/20/2027 | Non-Reimbursable | \$0 | GRC | SAA3-1723 | Aeronautics, Space Technology | View Signed Agreement |
| 272 | 36347 | Case Western Reserve University | Quantum Metrology Development for Spin-Based Solid-State Devices | 12/22/2022 | 12/22/2023 | Non-Reimbursable | \$20,719 | GRC | SAA3-1728 | Human Exploration and Operations | View Signed Agreement |
| 273 | 36308 | Nanopath, Inc. | Electromagnetic Simulations for Device Designs of Optical Sensing Substrates | 4/11/2022 | 4/11/2024 | Reimbursable | \$21,754 | GRC | SAA3-1722 | Aeronautics | View Signed Agreement |
| 274 | 36290 | Radian Aerospace Incorporated | Commercial Space Transport and Aircraft Components Research and Development Activities | 8/28/2022 | 8/27/2027 | Reimbursable | \$0 | GRC | SAA3-1726 | Aeronautics, Human Exploration and Operations, Science, Space Technology Technology Transfer | v, View Signed Agreement |
| 275 | 36156 | NATIONAL TECHNOLOGY AND ENGINEERING SOLUTIONS OF SANDIA, LLC | Engineering and Testing Services | 1/18/2022 | 1/18/2026 | Reimbursable | \$343,879 | GRC | SAA3-1702 | Aeronautics, Space Technology | View Signed Agreement |
| 276 | 36061 | ASTROBOTIC TECHNOLOGY, INC | Annex No. 07 to SAA8-1930516 for VIPER Egress Test | 5/5/2022 | 5/5/2024 | Reimbursable | \$35,885 | GRC | SAA8-1930516-07 | Science | View Signed Agreement |
| 277 | 36027 | Space Exploration Technologies Corp. | Annex No. 2 under SAA3-1708 to Spaceflight and Spaceflight Hardware Related Analysis, Services, Testing, and Expertise | 9/4/2022 | 9/4/2025 | Reimbursable | \$2,511,605 | GRC | SAA3-1708-2 | Space Technology | View Signed Agreement |
| 278 | 36021 | Northrop Grumman | Sub-Kilowatt HCT Long Duration Wear Test (LDWT) | 12/10/2022 | 12/10/2024 | Reimbursable | \$608,412 | GRC | SAA3-1724-01 | Science | View Signed Agreement |
| 279 | 36020 | Northrop Grumman | Electric Propulsion System Development, Fabrication, and Testing | 12/19/2022 | 12/18/2027 | Reimbursable | \$0 | GRC | SAA3-1724 | Aeronautics, Science | View Signed Agreement |
| 280 | 36011 | Wichita State University | Development of Multi-Functional Liner Concepts for Improvement of Turbofan Engines | 5/7/2023 | 5/7/2025 | Non-Reimbursable | \$3,202 | GRC | SAA3-1717 | Aeronautics | View Signed Agreement |

| RO | W NO. PAM ID NO | PARTNER NAME | TITLE/PURPOSE | SIGNATURE DATE | EXPIRATION DATE | TYPE OF AGREEMENT | TOTAL ESTIMATED VALUE | CENTER | CENTER TRACKING NUMBER (IF ANY) | EXPECTED AGENCY BENEFIT(S) | LINK TO SIGNED AGREEMENT |
|-----|-----------------|---|--|----------------|-----------------|-------------------|--------------------------|--------|------------------------------------|------------------------------------|-----------------------------|
| 281 | 35885 | University of Dayton Research Institute | Characterization Testing of Coefficient of Friction and Wear in Bolted Joints | 12/13/2022 | 12/13/2024 | Reimbursable | \$194,361 | GRC | SAA3-1719 | Aeronautics | View Signed Agreement |
| 282 | 35746 | SIKORSKY AIRCRAFT CORP | Dynamic Crush and Impact Testing and Modeling of Woven IM7/8552 Composite Material | 2/23/2022 | 2/23/2024 | Non-Reimbursable | \$89,891 | GRC | SAA3-1712 | Aeronautics | View Signed Agreement |
| 283 | 35681 | UNIVERSITY OF PITTSBURGH | Calculation of EBC Thermal Dynamic Properties from Machine-Learning Derived Atomistic Potentials | 3/24/2022 | 3/24/2024 | Non-Reimbursable | \$11,747 | GRC | SAA3-1709 | Science | View Signed Agreement |
| 284 | 35262 | Space Exploration Technologies Corp. | SPACEFLIGHT AND SPACEFLIGHT HARDWARE RELATED ANALYSIS, SERVICES, TESTING, AND EXPERTISE | 9/21/2021 | 9/21/2026 | Reimbursable | \$0 | GRC | SAA3-1708 | Human Exploration and Operations | View Signed Agreement |
| 285 | 35235 | Miami Valley Career Technical Center | NASA HUNCH (High school students United with NASA to Create Hardware) | 6/9/2022 | 6/8/2027 | Non-Reimbursable | \$114,496 | GRC | SAA3-1707 | Human Exploration and Operations | View Signed Agreement |
| 286 | 35124 | Federal Reserve Bank of Cleveland | SCIENCE, TECHNOLOGY, ENGINEERING AND MATHEMATICS (STEM) OUTREACH BETWEEN NASA GRC AND CLEVELAND FED | 2/24/2022 | 2/24/2027 | Non-Reimbursable | \$0 | GRC | SAA3-1699 | Education and/or Public Engagement | View Signed Agreement |
| 287 | 35018 | AURA Network Systems | Annex 2 to Advanced Air Mobility Technology Research and Demonstration Activities with AURA Network Systems (2021 ARMD ACO Award) | 7/6/2021 | 7/6/2026 | Non-Reimbursable | \$650,975 | GRC | GRC PAM NO 35018 | Aeronautics | View Signed Agreement |
| 288 | 34776 | Federal Aviation Administration | High Ice Water Content Flight Campaign in High Aerosol Concentrations Collaboration Between NASA GRC AND FAA (Non-Reimbursable Activities) | . 3/26/2022 | 3/26/2027 | Non-Reimbursable | \$1,510,502 | GRC | SAA3-1696 | Aeronautics | View Signed Agreement |
| 289 | 34618 | University Circle, Incorporated | University Circle Incorporated Future Connections Partnership | 7/29/2022 | 7/28/2027 | Non-Reimbursable | \$77,257 | GRC | SAA3-1705 | Education and/or Public Engagement | View Signed Agreement |
| 290 | 34317 | UNIVERSITY OF NOTRE DAME | Collaborative Research for Fan Noise Generation and Propagation on Advanced Noise Control Fan (ANCF) | 5/26/2021 | 5/26/2026 | Non-Reimbursable | \$80,095 | GRC | SAA3-1688 | Aeronautics | View Signed Agreement |

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|--------|------------|---------------------------|---|----------------|-----------------|-------------------|-----------------------|--------|------------------------------------|---------------------------------------|-----------------------------|
| 291 | 34260 | Wright Electric, Inc. | NASA/Wright Electric Power Electronic Technologies for Electrified Aircraft Propulsion (EAP) | 7/12/2022 | 7/12/2024 | Non-Reimbursable | \$202,458 | GRC | SAA3-1704 | Aeronautics | View Signed Agreement |
| 292 | 33985 | ACM International | Artificial Intelligence (AI)/Machine Learning (ML) Enhanced Toolkit to Establish Processing, Structure, Property, Performance (PSPP) Relationships to Accelerate Alloy Development and Increase Performance | 1/2/2022 | 1/2/2025 | Non-Reimbursable | \$162,576 | GRC | SAA3-1683 | Aeronautics | View Signed Agreement |
| 293 | 33936 | JumpStart, Inc. | Commercialization of NASA GRC Technology Efforts with JumpStart, Inc. | 4/1/2021 | 4/1/2026 | Non-Reimbursable | \$43,342 | GRC | SAA3-1678 | Space Technology, Technology Transfer | View Signed Agreement |
| 294 | 33924 | THE BOEING COMPANY | Development of Ultra-High-Performance Metallic Turbine Blades for Extreme Environments | 2/13/2023 | 8/13/2026 | Reimbursable | \$195,831 | GRC | SAA3-1680 | Aeronautics | View Signed Agreement |
| 295 | 33903 | Innoveering, LLC. | Hardware and Control Algorithms for Dual Mode Testing with Innoveering, LLC | 10/21/2021 | 10/21/2023 | Non-Reimbursable | \$608,314 | GRC | SAA3-1686 | Aeronautics | View Signed Agreement |
| 296 | 33579 | ControlX, Inc. | Control Algorithms Dual Mode Testing with ControlX Inc. | 3/15/2022 | 3/15/2024 | Non-Reimbursable | \$601,751 | GRC | SAA3-1718 | Aeronautics | View Signed Agreement |
| 297 | 33534 | The Ohio State University | In-Situ 3-D Printing of Wireless Implant with The Ohio State University | 12/2/2020 | 12/1/2025 | Non-Reimbursable | \$81,884 | GRC | SAA3-1670 | Aeronautics | View Signed Agreement |
| 298 | 33443 | ZIN TECHNOLOGIES, INC | Annex No. 03 to SAA3-1662 for Use of Thermal Vacuum Lab (TVAC) with ZIN (Reimbursable) | 12/10/2020 | 12/10/2023 | Reimbursable | \$203,200 | GRC | SAA3-1662-03 | Space Technology | View Signed Agreement |
| 299 | 33049 | | Spacecraft Electric Propulsion Component Development, Manufacturing, Testing and Evaluation | 1/5/2021 | 1/5/2026 | Reimbursable | \$0 | GRC | SAA3-1663 | Space Technology | View Signed Agreement |
| 300 | 33024 | | SmallSat Ka-band Operations User Terminal (SKOUT) Flight Experiments with CesiumAstro | 12/2/2020 | 12/2/2025 | Non-Reimbursable | \$150,568 | GRC | SAA3-1664 | Space Technology | View Signed Agreement |

| ROW NO | PAM ID NO. | PARTNER NAME | TITLE/PURPOSE | SIGNATURE DATE | EXPIRATION DATE | TYPE OF AGREEMENT | . TOTAL ESTIMATED VALUE | CENTER | CENTER TRACKING NUMBER (IF ANY) | EXPECTED AGENCY BENEFIT(S) | LINK TO SIGNED AGREEMENT |
|--------|------------|---|---|----------------|-----------------|-------------------|----------------------------|--------|------------------------------------|--|-----------------------------|
| 301 | 32927 | THE BOEING COMPANY | Advanced Dispersion Coating and Consolidation Techniques for Powder Feedstock | 12/22/2022 | 12/22/2026 | Non-Reimbursable | \$222,654 | GRC | SAA3-1687 | Aeronautics, Space Technology | View Signed Agreement |
| 302 | 32831 | Ozark Integrated Circuits Inc. | Fabrication of SiC Integrated Circuits for a Multi-Chip Microprocessor for Extreme Environments | 11/2/2020 | 11/2/2023 | Reimbursable | \$164,583 | GRC | SAA3-1661 | Space Technology | View Signed Agreement |
| 303 | 32534 | ZIN TECHNOLOGIES, INC | Use of Unique NASA Facilities (EMI Lab, SDL, TVAC) | 8/11/2020 | 8/11/2025 | Reimbursable | \$0 | GRC | SAA3-1662 | Human Exploration and Operations, Space Technology | View Signed Agreement |
| 304 | 32093 | HONEYWELL INTERNATIONAL, INC | Honeywell CLEEN-II Testing in Glenn Advanced Subsonic Combustion Rig (ASCR) | 12/2/2020 | 12/2/2025 | Reimbursable | \$1,370,473 | GRC | SAA3-1675 | Aeronautics | View Signed Agreement |
| 305 | 31726 | | Mobile Evaluation of Free-Space Optical Communication Equipment | 10/23/2020 | 10/23/2025 | Non-Reimbursable | \$44,595 | GRC | SAA3-1657-01 | Aeronautics | View Signed Agreement |
| 306 | 31725 | | Free-Space Laser/Quantum Communication Research Activities | 10/23/2020 | 10/23/2025 | Non-Reimbursable | \$0 | GRC | SAA3-1657 | Aeronautics | View Signed Agreement |
| 307 | 31589 | Southwest Research Institute | Great Horned Owl Demonstration and Validation Program with Southwest Research Institute | 5/13/2020 | 5/12/2025 | Non-Reimbursable | \$20,647 | GRC | SAA3-1658 | Aeronautics | View Signed Agreement |
| 308 | | OHIO DEPARTMENT OF NATURAL RESOURCES | A Series of Public Deer Hunts at Plum Brook Station | 11/15/2019 | 11/15/2024 | Non-Reimbursable | \$167,603 | GRC | SAA3-1632 | Institutional and Mission Support | View Signed Agreement |
| 309 | 31374 | | COLLABORATIVE DEVELOPMENT OF FINITE ELEMENT HPC MULTISCALE MODELING FRAMEWORK | 4/30/2020 | 4/30/2024 | Non-Reimbursable | \$157,736 | GRC | SAA3-1656 | Aeronautics | View Signed Agreement |
| 310 | 31344 | GREAT LAKES SCIENCE CENTER | The Official NASA Glenn Visitor Center | 9/30/2019 | 9/30/2029 | Non-Reimbursable | \$0 | GRC | SAA3-1630 | Education and/or Public Engagement | View Signed Agreement |

| ROW N | O. PAM ID NO. | PARTNER NAME | TITLE/PURPOSE | SIGNATURE DATE | EXPIRATION DATE | TYPE OF AGREEMENT | TOTAL ESTIMATED VALUE | CENTER | CENTER TRACKING NUMBER (IF ANY) | EXPECTED AGENCY BENEFIT(S) | LINK TO SIGNED AGREEMENT |
|-------|---------------|-------------------------------|--|----------------|-----------------|-------------------|--------------------------|--------|------------------------------------|-----------------------------------|-----------------------------|
| 311 | 31273 | Department of Agriculture | On-Site Shared Services Between NASA GRC and DOA-APHIS-WS at Plum Brook Station and License | 10/29/2019 | 10/29/2024 | Non-Reimbursable | \$124,359 | GRC | SAA3-1626 | Institutional and Mission Support | View Signed Agreement |
| 312 | 30756 | Aerojet Rocketdyne, Inc. | Upper Stage Engine Manufacturing, Testing, and Evaluation Umbrella Agreement for Aerojet Rocketdyne, Inc. | 11/18/2019 | 11/18/2024 | Reimbursable | \$0 | GRC | SAA3-1639 | Space Technology | View Signed Agreement |
| 313 | 30392 | Rocky River Watershed Council | Restoring Lower Abram Creek at NASA Glenn Research Center | 6/24/2019 | 6/24/2024 | Non-Reimbursable | \$3,302 | GRC | SAA3-1615 | Institutional and Mission Support | View Signed Agreement |
| 314 | 30296 | ANSYS Inc. | Collaboration on Icing Simulation Software Development | 1/27/2020 | 1/27/2024 | Non-Reimbursable | \$114,343 | GRC | SAA3-1647 | Aeronautics | View Signed Agreement |
| 315 | 30295 | THE BOEING COMPANY | Collaborative Icing Research, Simulation Tool Development and Testing Opportunities | 3/12/2020 | 3/11/2025 | Non-Reimbursable | \$59,152 | GRC | SAA3-1652 | Aeronautics | View Signed Agreement |
| 316 | 29566 | A and P Technology, Inc. | Dynamic Energy Absorption in Braided Composite Materials with A and P Technology, Inc. | 6/11/2019 | 6/1/2024 | Non-Reimbursable | \$276,623 | GRC | SAA3-1612 | Aeronautics | View Signed Agreement |
| 317 | 29551 | SureFly, Inc. | Acoustic Measurements on electrified Vertical Take-Off and Landing Urban Air Mobility Vehicle with SureFly, Inc. | 8/16/2019 | 8/16/2024 | Non-Reimbursable | \$354,701 | GRC | SAA3-1597 | Aeronautics | View Signed Agreement |
| 318 | 28651 | UNIVERSITY OF CINCINNATI | HABSat-2 – Harmful Algal Bloom Satellite 2 with the University of Cincinnati | 6/11/2019 | 12/31/2023 | Non-Reimbursable | \$145,450 | GRC | SAA3-1613 | Science | View Signed Agreement |
| 319 | 28214 | ROLLS-ROYCE CORP | Silicon Carbide Fiber High Temperature Characterization | 1/14/2020 | 1/14/2024 | Reimbursable | \$88,015 | GRC | SAA3-1606-1 | Aeronautics | View Signed Agreement |
| 320 | 28213 | ROLLS-ROYCE CORP | Testing and Analysis of Advanced Turbine Engine Materials, Structures and Components | 1/14/2020 | 1/14/2025 | Reimbursable | \$0 | GRC | SAA3-1606 | Aeronautics | View Signed Agreement |

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|--------|------------|-----------------------------|--|----------------|-----------------|-------------------|--------------------------|--------|------------------------------------|------------------------------------|-----------------------------|
| 321 | 28172 | BLUE ORIGIN, LLC | Environmental Testing for Fairing Deployment at Plum Brook Station | 5/20/2019 | 5/20/2024 | Reimbursable | \$1,571,953 | GRC | SAA3-1609-1 | Human Exploration and Operations | View Signed Agreement |
| 322 | 28171 | BLUE ORIGIN, LLC | Environmental Testing at Plum Brook Station | 5/20/2019 | 5/20/2024 | Reimbursable | \$0 | GRC | SAA3-1609 | Human Exploration and Operations | View Signed Agreement |
| 323 | 27738 | GENERAL ELECTRIC COMPANY | GE Aviation Low Pressure Ratio Fan and Inlet Technology Test | 6/26/2019 | 6/26/2026 | Reimbursable | \$9,595,137 | GRC | SAA3-1587 | Aeronautics | View Signed Agreement |
| 324 | 27606 | THE BOEING COMPANY | Shape Memory Alloy Reconfigurable Technology - Vortex Generator (SMART-VG) with The Boeing Company | 12/6/2018 | 12/31/2023 | Non-Reimbursable | \$184,268 | GRC | SAA3-1589 | Aeronautics, Technology Transfer | View Signed Agreement |
| 325 | 27174 | GENERAL ELECTRIC COMPANY | GE Low Pressure Ratio Fan Test | 3/28/2019 | 3/28/2024 | Non-Reimbursable | \$8,745,725 | GRC | SAA3-1588 | Aeronautics | View Signed Agreement |
| 326 | 26825 | ASM INTERNATIONAL | Material Data Management Consortium with ASM International | 3/27/2018 | 3/27/2024 | Reimbursable | \$35,696 | GRC | SAA3-1550 | Aeronautics, Technology Transfer | View Signed Agreement |
| 327 | 39292 | UNITED LAUNCH ALLIANCE, LLC | Annex 14 to ULA Umbrella with Annexes for launch vehicle support | 9/5/2023 | 9/5/2024 | Reimbursable | \$337,395 | GSFC | 450-AGMT-0180 | Human Exploration and Operations | View Signed Agreement |
| 328 | 39070 | UNITED LAUNCH ALLIANCE, LLC | Annex 13 to ULA Umbrella with Annexes for launch vehicle support | 8/1/2023 | 8/1/2024 | Reimbursable | \$324,552 | GSFC | 450-AGMT-0180 | Human Exploration and Operations | View Signed Agreement |
| 329 | 39057 | Polaris MEP | LEVERAGE COLLECTIVE RESOURCES BETWEEN NASA T2X AND MEP FOR THE PURPOSE OF SUPPORTING OF US MANUFACTURERS | 8/30/2023 | 8/30/2025 | Non-Reimbursable | \$12,250 | GSFC | | Technology Transfer | View Signed Agreement |
| 330 | 38770 | | DESCRIBED AND CAPTIONED MEDIA PROGRAMS MEDIA EDITING FOR DISABLED STUDENTS | 6/1/2023 | 6/1/2026 | Non-Reimbursable | \$21,000 | GSFC | | Education and/or Public Engagement | View Signed Agreement |

| ROW NO | . PAM ID NO. | PARTNER NAME | TITLE/PURPOSE | SIGNATURE DATE | EXPIRATION DATE | TYPE OF AGREEMENT | TOTAL ESTIMATED VALUE | CENTER | CENTER TRACKING NUMBER (IF ANY) | EXPECTED AGENCY BENEFIT(S) | LINK TO SIGNED AGREEMENT |
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| 331 | 38634 | INTEL CORP | CREATING A LEARNING COMMUNITY FOR STUDENTS | 6/20/2023 | 6/20/2026 | Non-Reimbursable | \$4,276 | GSFC | | Education and/or Public Engagement | View Signed Agreement |
| 332 | 38515 | Department of the Navy | National Earth Orientation Service | 9/13/2023 | 9/12/2028 | Non-Reimbursable | \$17,068,871 | GSFC | NASA-USNO-38515 | Science | View Signed Agreement |
| 333 | 138/1/15 | UNIVERSITY OF NORTH CAROLINA WILMINGTON | Non-Reimbursable SAA with UNCW for SOCON | 4/27/2023 | 4/27/2028 | Non-Reimbursable | \$185,000 | GSFC | 450-AGMT-0193 | Human Exploration and Operations | View Signed Agreement |
| 334 | 38242 | ILINILLEID LALINICH ALLIANICH IIC. | Annex 12 to ULA Umbrella with Annexes for launch vehicle support | 2/16/2023 | 2/16/2025 | Reimbursable | \$402,765 | GSFC | 450-AGMT-0180 | Human Exploration and Operations | View Signed Agreement |
| 335 | 38232 | | Supporting Development and Operation of the ILOCATOR Spectrometer | 7/12/2023 | 7/11/2028 | Non-Reimbursable | \$69,000 | GSFC | NASA-UND-38232 | Science | View Signed Agreement |
| 336 | 38018 | Horn Entrepreneurship | FOR DISSEMINATION OF NASA TECHNOLOGIES FOR ENTREPRENEURIAL OPPORTUNITIES AND TECHNOLOGY TRANSFER TO UNIVERSITY (T2U) FOR EDUCATIONAL UTILIZATION, STEM ENGAGEMENT, AND ANALYSIS | | 4/4/2025 | Non-Reimbursable | \$9,000 | GSFC | | Space Technology, Education and/or Public Engagement, Technology Transfer | View Signed Agreement |
| 337 | 37909 | Black River Innovation Campus | NONREIMBURSABLE SPACE ACT AGREEMENT FOR THE DISSEMINATION OF NASA TECHNOLOGIES FOR ENTREPRENEURIAL OPPORTUNITIES AND TECHNOLOGY TRANSFER TO UNIVERSITY (T2U) FOR EDUCATIONAL UTILIZATION AND ANALYSIS | 4/5/2023 | 4/5/2026 | Non-Reimbursable | \$28,000 | GSFC | | Education and/or Public Engagement, Technology Transfer | View Signed Agreement |
| 338 | 37534 | SCIENCE APPLICATIONS INTERNATIONAL CORPORATION | Collaboration On Women In STEAM | 12/5/2022 | 12/5/2027 | Non-Reimbursable | \$190,000 | GSFC | SAA5-22-4-N37534 | Education and/or Public Engagement | View Signed Agreement |
| 339 | 37438 | ITINITIED LATINICH ALLIANCE LLC | Annex 11 to ULA Umbrella with Annexes for launch vehicle support | 3/21/2023 | 6/8/2026 | Reimbursable | \$257,631 | GSFC | | Human Exploration and Operations | View Signed Agreement |
| 340 | 37418 | Ball Aerospace and Technology Corporation | COLLABORATION FOR HIGH ACCURACY, CRYOGENIC, REFRACTIVE INDEX MEASUREMENTS | 3/16/2023 | 3/16/2024 | Reimbursable | \$61,100 | GSFC | SAA5-22-4-R37418 | Space Technology, Technology Transfer | View Signed Agreement |

| ROW NO | PAM ID NO. | PARTNER NAME | TITLE/PURPOSE | SIGNATURE DATE | EXPIRATION DATE | TYPE OF AGREEMENT | TOTAL ESTIMATED VALUE | CENTER | CENTER TRACKING NUMBER (IF ANY) | EXPECTED AGENCY BENEFIT(S) | LINK TO SIGNED AGREEMENT |
|--------|------------|-----------------------------|---|----------------|-----------------|-------------------|-----------------------|--------|------------------------------------|----------------------------------|-----------------------------|
| 341 | | DI AVERS ASSOCIATION | COLLABORATION ON AWARENESS OF NASA TECHNOLOGIES FOR ENTREPRENEURIAL OPPORTUNITIES. | 11/15/2022 | 11/15/2025 | Non-Reimbursable | \$112,600 | GSFC | SAA5-22-4-N37412 | Technology Transfer | View Signed Agreement |
| 342 | 37395 | UNITED LAUNCH ALLIANCE, LLC | Annex 10 to ULA Umbrella with Annexes for launch vehicle support | 3/21/2023 | 6/8/2026 | Reimbursable | \$307,832 | GSFC | 450-AGMT-0180 | Human Exploration and Operations | View Signed Agreement |
| 343 | 37392 | UNITED LAUNCH ALLIANCE, LLC | Annex 9 to the ULA Umbrella with Annexes for launch vehicle support | 3/21/2023 | 6/8/2026 | Reimbursable | \$291,098 | GSFC | 450-AGMT-0180 | Human Exploration and Operations | View Signed Agreement |
| 344 | 37303 | Department of the Air Force | Non-Reimbursable STPSat-6 | 5/13/2023 | 11/12/2023 | Non-Reimbursable | \$23,763 | GSFC | 450-AGMT-0192 | Human Exploration and Operations | View Signed Agreement |
| 345 | 36376 | First Street Foundation | Facilitating Cooperation and Coordination around the Economical, Societal, and Physical Impacts of Current and Future Environmental Changes | 7/11/2022 | 7/10/2027 | Non-Reimbursable | \$800,000 | GSFC | NASA_FS_36376 | Science | View Signed Agreement |
| 346 | 36365 | LOUISIANA STATE UNIVERSITY | Multimessenger Operational Science Support and Astrophysics Information Collaboration (MOSSAIC) | 8/1/2022 | 7/31/2027 | Non-Reimbursable | \$51,200 | GSFC | NASA-LSU-36365 | Science | View Signed Agreement |
| 347 | 36298 | UNITED LAUNCH ALLIANCE, LLC | Annex Eight to ULA Umbrella with Annexes for launch vehicle support | 6/27/2022 | 6/8/2026 | Reimbursable | \$257,631 | GSFC | 450-AGMT-0180 | Human Exploration and Operations | View Signed Agreement |
| 348 | 36211 | BLUE ORIGIN, LLC | Annex to Engineering Analysis and Testing | 12/5/2022 | 2/8/2025 | Reimbursable | \$1,820,000 | GSFC | SAA-EA-20-29343 | Science, Space Technology | View Signed Agreement |
| 349 | 36196 | | Annex 7 to the ULA Umbrella with Annexes for Launch Vehicle support | 6/27/2022 | 6/8/2026 | Reimbursable | \$309,923 | GSFC | 450-AGMT-0180 | Human Exploration and Operations | View Signed Agreement |
| 350 | 36195 | UNITED LAUNCH ALLIANCE, LLC | Annex Six to ULA Umbrella with Annexes for launch vehicle support | 6/27/2022 | 6/8/2026 | Reimbursable | \$257,631 | GSFC | 450-AGMT-0180 | Human Exploration and Operations | View Signed Agreement |

| ROV | / NO. PAM ID NO. | PARTNER NAME | TITLE/PURPOSE | SIGNATURE DATE | EXPIRATION DATE | TYPE OF AGREEMENT | TOTAL ESTIMATED VALUE | CENTER | CENTER TRACKING NUMBER (IF ANY) | EXPECTED AGENCY BENEFIT(S) | LINK TO SIGNED AGREEMENT |
|-----|------------------|---|--|----------------|-----------------|-------------------|--------------------------|--------|------------------------------------|------------------------------------|-----------------------------|
| 351 | 36123 | THE BOARD OF TRUSTEES OF THE UNIVERSITY OF ILLINOIS | Cross-Cutting Initiative in CUBESAT innovations | 6/29/2022 | 9/30/2023 | Reimbursable | \$179,717 | GSFC | NASA_UIUC_36123 | Science | View Signed Agreement |
| 352 | 36118 | UNITED LAUNCH ALLIANCE, LLC | Annex Five to ULA Umbrella with Annexes for launch vehicle support | 6/7/2022 | 6/7/2026 | Reimbursable | \$303,648 | GSFC | 450-AGMT-0180 | Human Exploration and Operations | View Signed Agreement |
| 353 | 35830 | University of Pennsylvania | Utilizing NASA's Technology Transfer University (T2U) Program for dissemination of Goddard's Technology Transfer portfolio | 3/15/2022 | 3/15/2024 | Non-Reimbursable | \$5,200 | GSFC | | Education and/or Public Engagement | View Signed Agreement |
| 354 | 35727 | THE CONRAD FOUNDATION | Annex 1: Student Activities for NASA Owned Inventions | 10/24/2022 | 10/24/2024 | Non-Reimbursable | \$14,400 | GSFC | | Education and/or Public Engagement | View Signed Agreement |
| 355 | 35702 | THE CONRAD FOUNDATION | Student Activities for NASA Owned Inventions | 10/24/2022 | 10/24/2027 | Non-Reimbursable | \$0 | GSFC | | Education and/or Public Engagement | View Signed Agreement |
| 356 | 35626 | Gordon and Betty Moore Foundation | Laying the Groundwork for Better Understanding Zoonosis Emergence | 12/1/2021 | 12/31/2023 | Reimbursable | \$138,375 | GSFC | NASA-Foundation-35626 | Science | View Signed Agreement |
| 357 | 35144 | National Oceanic and Atmospheric Administration | SARSAT MOA | 6/17/2021 | 6/17/2026 | Reimbursable | \$949,044 | GSFC | 450-AGMT-SAR | Human Exploration and Operations | View Signed Agreement |
| 358 | 34694 | HOWARD | Joint Collaborative Framework for Earth Science Studies | 3/22/2022 | 3/21/2027 | Non-Reimbursable | \$51,200 | GSFC | NASA-HU-34694 | Science | View Signed Agreement |
| 359 | 34656 | GEORGE WASHINGTON UNIVERSITY | Joint Collaborative Framework for Astrophysical Studies | 10/27/2021 | 10/26/2026 | Non-Reimbursable | \$51,200 | GSFC | NASA-GWU-34656 | Science | View Signed Agreement |
| 360 | 34265 | University of Maryland Eastern Shore | Space Exploration, Science and Engineering Research, Business, Computer Science, and STEM Initiatives | 9/24/2021 | 9/23/2026 | Non-Reimbursable | \$8,211 | GSFC | GSFC-21-34265 | Education and/or Public Engagement | View Signed Agreement |

| ROW NO | PAM ID NO. | PARTNER NAME | TITLE/PURPOSE | SIGNATURE DATE | EXPIRATION DATE | TYPE OF AGREEMENT | TOTAL ESTIMATED VALUE | CENTER | CENTER TRACKING NUMBER (IF ANY) | EXPECTED AGENCY BENEFIT(S) | LINK TO SIGNED AGREEMENT |
|--------|------------|--|---|----------------|-----------------|-------------------|--------------------------|--------|------------------------------------|--|-----------------------------|
| 361 | 34264 | University of Maryland Eastern Shore | Space Exploration, Science and Engineering Research, Business, Computer Science and STEM Initiatives | 9/23/2021 | 9/23/2026 | Non-Reimbursable | \$0 | GSFC | GSFC-21-34265 NRSAA Umbrella | Education and/or Public Engagement | View Signed Agreement |
| 362 | 34065 | | Annex 4 to ULA Umbrella with Annexes for launch vehicle support (Vulcan SNC-1) | 6/7/2021 | 6/7/2026 | Reimbursable | \$229,079 | GSFC | 450-AGMT-0180 | Human Exploration and Operations | View Signed Agreement |
| 363 | 34064 | | Annex 3 to ULA Umbrella with Annexes for launch vehicle support (Vulcan Peregrine) | 6/7/2021 | 6/7/2026 | Reimbursable | \$241,506 | GSFC | 450-AGMT-0180 | Human Exploration and Operations | View Signed Agreement |
| 364 | 34061 | | Annex 2 to ULA Umbrella with Annexes for launch vehicle support (Atlas V CFT) | 6/7/2021 | 6/7/2026 | Reimbursable | \$219,976 | GSFC | 450-AGMT-0180 | Human Exploration and Operations | View Signed Agreement |
| 365 | 34020 | | Annex 1 under the ULA Umbrella for launch vehicle support (Atlas V USSF-8) | 6/8/2021 | 6/8/2026 | Reimbursable | \$258,427 | GSFC | 450-AGMT-0180 | Human Exploration and Operations | View Signed Agreement |
| 366 | 34019 | UNITED LAUNCH ALLIANCE, LLC | ULA Umbrella with Annexes for launch vehicle support | 6/8/2021 | 6/8/2026 | Reimbursable | \$0 | GSFC | 450-AGMT-0180 | Human Exploration and Operations | View Signed Agreement |
| 367 | 33525 | International High School at Largo | Dissemination of NASA Technologies for Educational Entrepreneurship and Commercialization Studies by Students | 4/30/2021 | 4/30/2024 | Non-Reimbursable | \$10,500 | GSFC | | Education and/or Public Engagement, Technology Transfer | View Signed Agreement |
| 368 | | Maryland Technology Development Corporation | Economic Development | 11/23/2020 | 11/23/2023 | Non-Reimbursable | \$61,400 | GSFC | SAA5-2020-33416 | Education and/or Public Engagement, Technology Transfer | View Signed Agreement |
| 369 | 32950 | | Rapid Detection of Changing Bio-signatures from Existing Pathogens or New Virus Profiles | 1/15/2021 | 1/14/2024 | Non-Reimbursable | \$0 | GSFC | SAA5-2021-1-U32950 | Science, Technology Transfer | View Signed Agreement |
| 370 | 32893 | | Development Inflatable Communication Antenna Structures using Green Carbon Foams | 4/20/2021 | 4/20/2024 | Non-Reimbursable | \$108,100 | GSFC | SAA5-20-4-N32893 | Science | View Signed Agreement |

| ROW N | D. PAM ID NO. | PARTNER NAME | TITLE/PURPOSE | SIGNATURE DATE | EXPIRATION DATE | TYPE OF AGREEMENT | TOTAL ESTIMATED VALUE | CENTER | CENTER TRACKING NUMBER (IF ANY) | EXPECTED AGENCY BENEFIT(S) | LINK TO SIGNED AGREEMENT |
|-------|---------------|--|---|----------------|-----------------|-------------------|--------------------------|--------|------------------------------------|------------------------------------|-----------------------------|
| 371 | 32764 | Planet Labs Inc. | Orbit Maintenance Coordination w/ GPM & Planet Labs Inc. | 11/18/2020 | 11/18/2025 | Non-Reimbursable | \$23,000 | GSFC | | Science | View Signed Agreement |
| 372 | 32725 | University of Texas at Austin | Annex to Outreach for Space Operations and Mission Problems | 10/15/2020 | 6/8/2025 | Non-Reimbursable | \$26,000 | GSFC | SAA5-20-3-N32725-A2 | Space Technology | View Signed Agreement |
| 373 | 31812 | University of Texas at Austin | Outreach for Space Operations and Mission Problems | 6/8/2020 | 6/7/2025 | Non-Reimbursable | \$56,859 | GSFC | 31811 | Science | View Signed Agreement |
| 374 | 31811 | University of Texas at Austin | Outreach for Space Operations and Mission Problems | 6/8/2020 | 6/7/2025 | Non-Reimbursable | \$0 | GSFC | | Science | View Signed Agreement |
| 375 | 31605 | Earth Networks, Inc. | INFORMATION AND DATA EXCHANGE RELATED TO THE GLOBE PROGRAM | 4/29/2020 | 4/29/2025 | Non-Reimbursable | \$17,600 | GSFC | SAA5-20-2-N31605 | Education and/or Public Engagement | View Signed Agreement |
| 376 | 31175 | Walgreen Company | NASA GSFC Non-Occupational fee-based influenza clinic | 11/12/2019 | 10/25/2023 | Non-Reimbursable | \$420,000 | GSFC | | | View Signed Agreement |
| 377 | 30478 | THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK | Development of Teaching Activities | 8/29/2019 | 8/28/2024 | Reimbursable | \$250,000 | GSFC | CU-NASA-30478 | Science | View Signed Agreement |
| 378 | 29833 | DIGITALGLOBE, INC | Conjunction Assessment Screening Services | 9/11/2019 | 9/11/2024 | Reimbursable | \$508,282 | GSFC | SAA5-19-2-R-29833 | Science | View Signed Agreement |
| 379 | 27393 | National Science Foundation | Spacecraft Tracking and Data Acquisition at McMurdo Ground Station (MGS) | 10/22/2018 | 10/22/2023 | Non-Reimbursable | \$200,000 | GSFC | 450-AGMT-0107 | Human Exploration and Operations | View Signed Agreement |
| 380 | 26985 | Defense Special Missile and Aerospace Center | Personnel Access and Expertise Sharing | 10/30/2018 | 10/30/2023 | Non-Reimbursable | \$25,983 | GSFC | SAA5-18-01-I26985-1 | Science | View Signed Agreement |

| ROW N | D. PAM ID NO. | PARTNER NAME | TITLE/PURPOSE | SIGNATURE DATE | EXPIRATION DATE | TYPE OF AGREEMENT | TOTAL ESTIMATED VALUE | CENTER | CENTER TRACKING NUMBER (IF ANY) | EXPECTED AGENCY BENEFIT(S) | LINK TO SIGNED AGREEMENT |
|-------|---------------|--|---|----------------|-----------------|-------------------|--------------------------|--------|------------------------------------|------------------------------------|-----------------------------|
| 381 | 25689 | National Football League Players Association | COLLABORATION TO COMMERCIALIZE NASA TECHNOLOGIES | 5/15/2018 | 5/13/2025 | Non-Reimbursable | \$274,400 | GSFC | SAA5-2017-3-N25689 | Technology Transfer | View Signed Agreement |
| 382 | 39659 | Smithsonian Institution | EIC Loan Agreement | 9/29/2023 | 9/29/2028 | Non-Reimbursable | \$3,335,000 | HQ | | Education and/or Public Engagement | View Signed Agreement |
| 383 | 39558 | Smithsonian Institution | Access and Installation Agreement | 8/31/2023 | 8/31/2026 | Non-Reimbursable | \$3,335,000 | HQ | | Science | View Signed Agreement |
| 384 | 38807 | Roccor, LLC | Characterization of High Aspect Ratio Booms for Large Apertures | 4/27/2023 | 4/27/2025 | Unfunded | \$971,832 | HQ | | Space Technology | View Signed Agreement |
| 385 | 38806 | Venturi Astrolab, Inc | Demonstrating Lunar Tire Technology Readiness | 4/27/2023 | 4/27/2025 | Unfunded | \$1,111,565 | HQ | | Space Technology | View Signed Agreement |
| 386 | 38805 | CANOPY AEROSPACE INC | Low-cost reusable TPS substrates as an alternative to AETB | 4/27/2023 | 4/27/2025 | Unfunded | \$687,000 | HQ | | Space Technology | View Signed Agreement |
| 387 | 38804 | THE BOEING COMPANY | Complex Curvature Retractable Pin Tool Friction Stir Welding Pathfinder | 4/27/2023 | 4/27/2025 | Unfunded | \$1,056,034 | HQ | | Space Technology | View Signed Agreement |
| 388 | 38803 | PHASE FOUR, INC | Phase Four, Inc | 4/27/2023 | 4/27/2025 | Unfunded | \$293,610 | HQ | | Space Technology | View Signed Agreement |
| 389 | 38802 | STRATOLAUNCH, LLC | Bringing Shuttle Orbiter TPS into the 21st Century | 4/27/2023 | 4/27/2025 | Unfunded | \$988,000 | HQ | | Space Technology | View Signed Agreement |
| 390 | 38801 | PSIONIC, LLC | Commercial Wind Measurement Constellation | 4/27/2023 | 4/27/2025 | Unfunded | \$506,760 | HQ | | Space Technology | View Signed Agreement |

| ROW N | D. PAM ID NO. | PARTNER NAME | TITLE/PURPOSE | SIGNATURE DATE | EXPIRATION DATE | TYPE OF AGREEMENT | TOTAL ESTIMATED VALUE | CENTER | CENTER TRACKING NUMBER (IF ANY) | EXPECTED AGENCY BENEFIT(S) | LINK TO SIGNED AGREEMENT |
|-------|---------------|--------------------------|--|----------------|-----------------|-------------------|--------------------------|--------|------------------------------------|---|-----------------------------|
| 391 | 38800 | Lockheed Martin Inc | Oscillating Heat Pipe Technology for Aeroentry and Commercial Applications (OHPACA) | 4/27/2023 | 4/27/2025 | Unfunded | \$1,016,272 | НQ | | Space Technology | View Signed Agreement |
| 392 | 38799 | BLUE ORIGIN, LLC | Friction Stir Additive Manufacturing (FSAM) Enabling Cislunar/Lunar Surface Infrastructure & Capabilities | 4/27/2023 | 4/27/2025 | Unfunded | \$1,121,515 | HQ | | Space Technology | View Signed Agreement |
| 393 | 38798 | BLUE ORIGIN, LLC | Metallic Thermal Protection System (TPS) | 4/27/2023 | 4/27/2025 | Unfunded | \$977,857 | HQ | | Space Technology | View Signed Agreement |
| 394 | 38797 | MAXAR SPACE ROBOTICS LLC | Automated Robotic Assembly of the Light Bender System | 4/27/2023 | 4/27/2025 | Unfunded | \$980,000 | HQ | | Space Technology | View Signed Agreement |
| 395 | 38796 | AEROJET ROCKETDYNE, INC | Electrically Actuated Quick-Disconnect Coupling for Cislunar and Lunar Surface Cryogenic Propellant Transfer | 4/27/2023 | 4/27/2025 | Unfunded | \$623,036 | HQ | | Space Technology | View Signed Agreement |
| 396 | 38795 | AEROJET ROCKETDYNE, INC | Fully Additively-Manufactured LOX-LH2 Engine Demonstration | 4/27/2023 | 4/27/2025 | Unfunded | \$1,357,690 | HQ | 1 | Space Technology | View Signed Agreement |
| 397 | 38792 | LOCKHEED MARTIN | Friction Stir Welded Blanks for Advanced Formed Shapes | 4/27/2023 | 4/27/2025 | Unfunded | \$988,515 | HQ | | Space Technology | View Signed Agreement |
| 398 | 38791 | Lockheed Martin Corp | In-Space Manufacturing Technologies for Thermoplastic Composites | 4/27/2023 | 4/27/2025 | Unfunded | \$1,008,057 | HQ | | Space Technology | View Signed Agreement |
| 399 | 38790 | Sierra Space Corporation | Development of Low Cost High Temperature Reusable TPS | 4/27/2023 | 4/27/2025 | Unfunded | \$375,293 | HQ | | Space Technology | View Signed Agreement |
| 400 | 38788 | Peanuts Worldwide, LLC | Engagement Collaboration Annex One | 7/27/2023 | 7/27/2028 | Non-Reimbursable | \$113,421 | HQ | | Human Exploration and Operations, Education and/or Public Engagement | View Signed Agreement |

| ROW N | D. PAM ID NO. | PARTNER NAME | TITLE/PURPOSE | SIGNATURE DATE | EXPIRATION DATE | TYPE OF AGREEMENT | TOTAL ESTIMATED VALUE | CENTER | CENTER TRACKING NUMBER (IF ANY) | EXPECTED AGENCY BENEFIT(S) | LINK TO SIGNED AGREEMENT |
|-------|---------------|--|---|----------------|-----------------|-------------------|--------------------------|--------|------------------------------------|---|-----------------------------|
| 401 | 38787 | Peanuts Worldwide, LLC | Peanuts Worldwide Engagement Collaboration | 7/27/2023 | 7/27/2028 | Non-Reimbursable | \$0 | HQ | | Human Exploration and Operations, Education and/or Public Engagement | View Signed Agreement |
| 402 | 38744 | Department of Energy Office of Science | Microbiome Data Ecosystems and Computational Frameworks | 9/7/2023 | 9/6/2028 | Non-Reimbursable | \$125,000 | HQ | | Science | View Signed Agreement |
| 403 | 38475 | Department of Energy Office of Science | Arctic Climate and Ecology Research in Alaska | 5/17/2023 | 5/17/2026 | Non-Reimbursable | \$9,099,000 | HQ | | Science | View Signed Agreement |
| 404 | 38438 | Defense Advanced Research Projects Agency | Demonstration Rocket For Agile Cislunar Operations (DRACO) Program | 1/20/2023 | 1/19/2028 | Non-Reimbursable | \$205,000,000 | HQ | | Space Technology | View Signed Agreement |
| 405 | 37861 | MICROSOFT CORPORATION | Annex 1 for Engaging Students in STEM using Minecraft | 2/22/2023 | 2/21/2028 | Non-Reimbursable | \$118,750 | HQ | | Education and/or Public Engagement | View Signed Agreement |
| 406 | 37860 | MICROSOFT CORPORATION | For Promoting STEM Education and STEM Engagement | 2/24/2023 | 2/23/2028 | Non-Reimbursable | \$0 | HQ | | Education and/or Public Engagement | View Signed Agreement |
| 407 | 37809 | Aerospace Industries Association | Annex 1 For Engaging Elementary and Middle School Students in Rocketry | 3/15/2023 | 2/1/2025 | Non-Reimbursable | \$30,750 | HQ | 37809 | Education and/or Public Engagement | View Signed Agreement |
| 408 | 37808 | Aerospace Industries Association | For Increasing Access to Aerospace and Rocketry STEM Engagement Activities | 3/15/2023 | 2/1/2027 | Non-Reimbursable | \$0 | HQ | | Education and/or Public Engagement | View Signed Agreement |
| 409 | 37443 | Apple Inc. | Participation in Apple Film Project | 1/23/2023 | 1/23/2026 | Reimbursable | \$289,479 | HQ | | Institutional and Mission Support | View Signed Agreement |
| 410 | 37404 | North Central Texas Council of Governments | annex to Advanced Air Mobility Technology Research and Demonstration Activities | 12/14/2022 | 12/14/2025 | Non-Reimbursable | \$45,000 | HQ | 34701 | Aeronautics | View Signed Agreement |

| ROW NO | PAM ID NO. | PARTNER NAME | TITLE/PURPOSE | SIGNATURE DATE | EXPIRATION DATE | TYPE OF AGREEMENT | . TOTAL ESTIMATED VALUE | CENTER | CENTER TRACKING NUMBER (IF ANY) | EXPECTED AGENCY BENEFIT(S) | LINK TO SIGNED AGREEMENT |
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| 411 | 37403 | | annex to Advanced Air Mobility Technology Research and Demonstration Activities | 12/14/2022 | 12/14/2025 | Non-Reimbursable | \$45,000 | HQ | 34708 | Aeronautics | View Signed Agreement |
| 412 | 37402 | City of Orlando | annex to Advanced Air Mobility Technology Research and Demonstration Activities | 12/14/2022 | 12/14/2025 | Non-Reimbursable | \$45,000 | HQ | 34710 | Aeronautics | View Signed Agreement |
| 413 | | Zozude LLC dba Institute of Competition Sciences | For Increasing Access to STEM Challenges | 1/4/2023 | 1/4/2026 | Non-Reimbursable | \$14,625 | HQ | | Education and/or Public Engagement | View Signed Agreement |
| 414 | 37295 | Code.org | For Increasing Access to Computer Science Resources for K- 12 Teachers and Students | 10/5/2022 | 10/5/2027 | Non-Reimbursable | \$42,500 | HQ | 37295 | Education and/or Public Engagement | View Signed Agreement |
| 415 | 37260 | AST&SCIENCE, LLC | Flight Safety Coordination with NASA Assets | 11/10/2022 | 11/10/2032 | Non-Reimbursable | \$1,210,580 | HQ | | Human Exploration and Operations | View Signed Agreement |
| 416 | 37032 | Pear Deck | For Increasing Access to STEM Digital Resources for K-12 Teachers | 11/2/2022 | 11/2/2027 | Non-Reimbursable | \$24,375 | HQ | | Education and/or Public Engagement | View Signed Agreement |
| 417 | 36946 | Ohio Department of Transportation | Annex to Advanced Air Mobility Technology Research and Demonstration Activities | 12/14/2022 | 12/14/2025 | Non-Reimbursable | \$45,000 | HQ | 34682 | Aeronautics | View Signed Agreement |
| 418 | 36810 | Therapy Materials Vault | Space Communications and Navigation Speech Therapy Materials | 6/24/2022 | 6/9/2025 | Non-Reimbursable | \$5,400 | HQ | | Education and/or Public Engagement | View Signed Agreement |
| 419 | | | THE DISCOVERY, ACCESS, AND USE OF LARGE EARTH SCIENCE DATASETS | 11/22/2022 | 11/22/2027 | Non-Reimbursable | \$20,000 | HQ | | Science | View Signed Agreement |
| 420 | 36394 | | THE DISCOVERY, ACCESS, AND USE OF LARGE EARTH SCIENCE DATASETS | 11/22/2022 | 11/22/2027 | Non-Reimbursable | \$20,000 | HQ | | Science | View Signed Agreement |

| ROW NO | D. PAM ID NO. | PARTNER NAME | TITLE/PURPOSE | SIGNATURE DATE | EXPIRATION DATE | TYPE OF AGREEMENT | TOTAL ESTIMATED VALUE | CENTER | CENTER TRACKING NUMBER (IF ANY) | EXPECTED AGENCY BENEFIT(S) | LINK TO SIGNED AGREEMENT |
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| 421 | 36393 | United States Department of the Interior | Annex 3 for Satellite Cross-calibration Radiometer Project Under Nonreimbursable Umbrella Interagency Agreement between NASA and Department of the Interior For Collaboration On Sustainable Land Imaging Project | 10/12/2022 | 12/6/2031 | Non-Reimbursable | \$179,200 | HQ | | Science | View Signed Agreement |
| 422 | | American Institute of Aeronautics and Astronautics (AIAA) Foundation | Annex 2 to NRSS Between NASA and AIAA Foundation for Increasing Access to Aerospace Education Resources | 4/19/2022 | 4/19/2025 | Non-Reimbursable | \$455,250 | HQ | 35587 | Education and/or Public Engagement | View Signed Agreement |
| 423 | 36101 | National Oceanic and Atmospheric Administration | Accommodation and Operation of Libera on JPSS-3 | 3/31/2022 | 3/31/2032 | Non-Reimbursable | \$163,893,000 | HQ | | Science | View Signed Agreement |
| 424 | 36023 | Crayola | Annex 1 Under Umbrella SAA between NASA and Crayola Education | 4/28/2022 | 4/28/2027 | Non-Reimbursable | \$87,572 | HQ | | Education and/or Public Engagement | View Signed Agreement |
| 425 | 36022 | Crayola | For STEAM Education and Engagement | 4/28/2022 | 4/28/2027 | Non-Reimbursable | \$0 | HQ | | Education and/or Public Engagement | View Signed Agreement |
| 426 | 35995 | Federal Aviation Administration | annex to For Demonstration of Promising Aviation Concepts and Technology | 7/29/2022 | 1/4/2026 | Non-Reimbursable | \$80,990 | HQ | 31919 | Aeronautics | View Signed Agreement |
| 427 | 1.34488 | American Institute of Aeronautics and Astronautics (AIAA) Foundation | ANNEX 1 Under Nonreimbursable Space Act Agreement between NASA and AIAA Foundation for Increasing Access to Aerospace Education Resources and Opportunities | 1/12/2022 | 1/12/2024 | Non-Reimbursable | \$6,000 | HQ | 35587 | Education and/or Public Engagement | View Signed Agreement |
| 428 | | American Institute of Aeronautics and Astronautics (AIAA) Foundation | Nonreimbursable Space Act Agreement Between NASA and AIAA Foundation for Increasing Access to Aerospace Education Resources | 1/12/2022 | 1/12/2027 | Non-Reimbursable | \$0 | HQ | | Education and/or Public Engagement | View Signed Agreement |
| 429 | 35525 | National Geographic Partners, LLC | Artemis Imagery | 9/23/2021 | 9/23/2026 | Non-Reimbursable | \$2,450,000 | HQ | 35525 | Human Exploration and Operations | View Signed Agreement |
| 430 | 35270 | The Center of Science and Industry | Nonreimbursable Space Act Agreement Between NASA and COSI for Delivering STEM Engagement to Underserved Youth Across the Nation | 10/25/2021 | 10/25/2026 | Non-Reimbursable | \$17,187 | HQ | | Education and/or Public Engagement | View Signed Agreement |

| ROW NO | . PAM ID NO. | PARTNER NAME | TITLE/PURPOSE | SIGNATURE DATE | EXPIRATION DATE | TYPE OF AGREEMENT | TOTAL ESTIMATED VALUE | CENTER | CENTER TRACKING NUMBER (IF ANY) | EXPECTED AGENCY BENEFIT(S) | LINK TO SIGNED AGREEMENT |
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| 431 | 35190 | United States Department of the Interior | Annex 2 for Landsat Next Project Under Nonreimbursable Umbrella Interagency Agreement between NASA and Department of the Interior For Collaboration On Sustainable Land Imaging Projects | 2/9/2022 | 12/6/2031 | Non-Reimbursable | \$1,089,926,000 | HQ | | Science | View Signed Agreement |
| 432 | 34746 | United States Department of the Interior | Annex 1 for Landsat 9 Project Under Nonreimbursable Umbrella Interagency Agreement between NASA and Department of the Interior For Collaboration On Sustainable Land Imaging Projects | 2/9/2022 | 12/6/2031 | Non-Reimbursable | \$16,066,000 | HQ | | Science | View Signed Agreement |
| 433 | 34745 | United States Department of the Interior | Collaboration on Sustainable Land Imaging Projects | 12/6/2021 | 12/6/2031 | Non-Reimbursable | \$0 | HQ | | Science | View Signed Agreement |
| 434 | 34711 | City of Orlando | annex to Advanced Air Mobility Technology Research and Demonstration Activities | 5/7/2021 | 5/7/2026 | Non-Reimbursable | \$250,000 | HQ | | Aeronautics | View Signed Agreement |
| 435 | 34710 | City of Orlando | Advanced Air Mobility Technology Research and Demonstration Activities | 5/7/2021 | 5/7/2026 | Non-Reimbursable | \$0 | HQ | | Aeronautics | View Signed Agreement |
| 436 | 34709 | Massachusetts Department of Transportation | annex to Advanced Air Mobility Technology Research and Demonstration Activities | 5/7/2021 | 5/7/2026 | Non-Reimbursable | \$250,000 | HQ | | Aeronautics | View Signed Agreement |
| 437 | 34708 | Massachusetts Department of Transportation | Advanced Air Mobility Technology Research and Demonstration Activities | 5/7/2021 | 5/7/2026 | Non-Reimbursable | \$0 | HQ | | Aeronautics | View Signed Agreement |
| 438 | 34706 | Minnesota Department of Transportation | annex to Advanced Air Mobility Technology Research and Demonstration Activities | 5/7/2021 | 5/7/2026 | Non-Reimbursable | \$250,000 | HQ | | Aeronautics | View Signed Agreement |
| 439 | 34705 | Minnesota Department of Transportation | Advanced Air Mobility Technology Research and Demonstration Activities | 5/7/2021 | 5/7/2026 | Non-Reimbursable | \$0 | HQ | | Aeronautics | View Signed Agreement |
| 440 | 34704 | North Central Texas Council of Governments | annex to Advanced Air Mobility Technology Research and Demonstration Activities | 5/7/2021 | 5/7/2026 | Non-Reimbursable | \$250,000 | HQ | | Aeronautics | View Signed Agreement |

| ROV | / NO. PAM ID NO. | PARTNER NAME | TITLE/PURPOSE | SIGNATURE DATE | EXPIRATION DATE | TYPE OF AGREEMENT | TOTAL ESTIMATED VALUE | CENTER | CENTER TRACKING NUMBER (IF ANY) | EXPECTED AGENCY BENEFIT(S) | LINK TO SIGNED AGREEMENT |
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| 441 | 34701 | North Central Texas Council of Governments | Advanced Air Mobility Technology Research and Demonstration Activities | 5/7/2021 | 5/7/2026 | Non-Reimbursable | \$0 | HQ | | Aeronautics | View Signed Agreement |
| 442 | 34686 | Ohio Department of Transportation | annex to Advanced Air Mobility Technology Research and Demonstration Activities | 5/7/2021 | 5/7/2026 | Non-Reimbursable | \$250,000 | HQ | 34682 | Aeronautics | View Signed Agreement |
| 443 | 34682 | Ohio Department of Transportation | Advanced Air Mobility Technology Research and Demonstration Activities | 5/7/2021 | 5/7/2026 | Non-Reimbursable | \$0 | HQ | | Aeronautics | View Signed Agreement |
| 444 | 34595 | United States Department of Agriculture | For STEM Education and Engagement around Trees Grown from Seeds Flown in Space | 6/25/2021 | 6/25/2026 | Non-Reimbursable | \$50,625 | HQ | | Education and/or Public Engagement | View Signed Agreement |
| 445 | 34122 | Gearbox Labs, Inc. | For K-12 STEM Engagement and Education | 3/30/2021 | 3/30/2024 | Non-Reimbursable | \$9,625 | HQ | 34122 | Education and/or Public Engagement | View Signed Agreement |
| 446 | 33818 | Orbital ATK, Inc | Small Spacecraft Electric Propulsion (SSEP) System | 11/6/2020 | 9/30/2024 | Unfunded | \$998,544 | HQ | STMD-SAA-ACO20-0021 | Space Technology | View Signed Agreement |
| 447 | 33812 | Rocket Lab USA, Inc | Proposal to the National Aeronautics and Space Administration (NASA) Space Technology Announcement of Collaborative Opportunity | 11/6/2020 | 9/30/2025 | Unfunded | \$1,736,814 | HQ | STMD-SAA-ACO20-0009 | Space Technology | View Signed Agreement |
| 448 | 33810 | Phase Four, Inc | Lifetime Trend Testing of the Phase Four RF Thruster for Small Spacecraft Missions | 11/6/2020 | 3/31/2025 | Unfunded | \$424,161 | HQ | STMD-SAA-ACO20-0056 | Space Technology | View Signed Agreement |
| 449 | 33808 | AEROJET ROCKETDYNE, INC | A Novel Approach to Human Exploration-Enabling Green Monopropellants for SmallSats | 11/6/2020 | 9/30/2024 | Unfunded | \$1,492,918 | HQ | STMD-SAA-ACO20-0036 | Space Technology | View Signed Agreement |
| 450 | 33807 | CORNERSTONE RESEARCH GROUP, INC | c. Additively Manufactured TPS Arc Jet Evaluation | 11/6/2020 | 9/30/2023 | Unfunded | \$897,358 | HQ | STMD-SAA-ACO20-0038 | Space Technology | View Signed Agreement |

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| 451 | 33806 | | Reactive Additive Manufacturing for Fourth Industrial Revolution Exploration Systems (RAMFIRE) | 11/6/2020 | 9/30/2023 | Unfunded | \$1,117,904 | HQ | STMD-SAA-ACO20-0026 | Space Technology | View Signed Agreement |
| 452 | | SPACE EXPLORATION TECHNOLOGIES CORP | In-flight Imagery and Thermal Measurement of Starship during Orbital Reentry | 11/6/2020 | 12/31/2024 | Unfunded | \$2,390,800 | HQ | STMD-SAA-ACO20-0025 | Space Technology | View Signed Agreement |
| 453 | 33804 | Ahmic Aerospace, LLC | Hypersonic Instrumentation and Thermal Protection System Material Characterization Test Methodology | 11/6/2020 | 9/30/2023 | Unfunded | \$786,480 | HQ | STMD-SAA-ACO20-22 | Space Technology | View Signed Agreement |
| 454 | 33803 | Spacefactory, Inc | Design of an Additive Construction System for Lunar ISRU Application through Active Sample Testing in a Relevant Environment | 11/6/2020 | 9/30/2023 | Unfunded | \$627,355 | HQ | STMD-SAA-ACO20-53 | Space Technology | View Signed Agreement |
| 455 | 33802 | BLUE ORIGIN, LLC | Space Robot Operating System | 11/6/2020 | 9/30/2023 | Unfunded | \$2,112,823 | HQ | STMD-SAA-ACO20-32 | Space Technology | View Signed Agreement |
| 456 | 33801 | PH Matter, LLC | Advanced Alkaline Reversible Cell for Production of Hydrogen and Oxygen from ISRU-Generated Water | 11/6/2020 | 9/30/2023 | Unfunded | \$441,469 | HQ | STMD-SAA-ACO20-0012 | Space Technology | View Signed Agreement |
| 457 | 33800 | SPACE SYSTEMS LORAL, LLC | Lunar Dust Mitigation on Flexible Solar Arrays | 11/6/2020 | 9/30/2023 | Unfunded | \$965,210 | HQ | STMD-SAA-ACO20-0020 | Space Technology | View Signed Agreement |
| 458 | 33160 | Oak Ridge Associated Universities, Inc. | Annex No. 1 Under Umbrella SAA for Increasing Access to STEM Engagement and STEM Education Opportunities and Experiences | 12/15/2020 | 12/15/2025 | Non-Reimbursable | \$54,375 | HQ | | Education and/or Public Engagement | View Signed Agreement |
| 459 | 33159 | Oak Ridge Associated Universities, Inc. | Umbrella Space Act Agreement for Increasing Access to STEM Engagement and STEM Education Opportunities and Experiences | 12/15/2020 | 12/15/2025 | Non-Reimbursable | \$0 | HQ | | Education and/or Public Engagement | View Signed Agreement |
| 460 | 33145 | | Non-Reimbursable Space Act Agreement for K-12 STEM Engagement and Education | 11/10/2020 | 11/10/2025 | Non-Reimbursable | \$75,625 | HQ | 33145 | Education and/or Public Engagement | View Signed Agreement |

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| 461 | 33007 | SPACE EXPLORATION TECHNOLOGIES CORP | Flight Safety Coordination with NASA Assets | 1/15/2021 | 1/15/2031 | Non-Reimbursable | \$1,836,425 | HQ | | Human Exploration and Operations, Science | View Signed Agreement |
| 462 | 32857 | STEM Next Opportunity Fund | Annex 1 Under Umbrella Space Act Agreement for the STEM Next Million Girls Moonshot Initiative | 8/27/2020 | 8/27/2025 | Non-Reimbursable | \$247,750 | HQ | 32856 | Education and/or Public Engagement | View Signed Agreement |
| 463 | 32856 | STEM Next Opportunity Fund | Umbrella Space Act Agreement for Increasing Access to STEM Engagement and STEM Education Opportunities and Experiences | 8/27/2020 | 8/27/2025 | Non-Reimbursable | \$0 | HQ | 32856 | Education and/or Public Engagement | View Signed Agreement |
| 464 | 32717 | United States Air Force | Enabling Advanced Air Mobility | 4/7/2021 | 4/7/2026 | Non-Reimbursable | \$150,000 | HQ | | Aeronautics | View Signed Agreement |
| 465 | 32716 | United States Air Force | A PARTNERSHIP TO ACHIEVE GOALS IN ADVANCED AIR MOBILITY | 4/12/2021 | 4/12/2026 | Non-Reimbursable | \$0 | HQ | | Aeronautics | View Signed Agreement |
| 466 | 32457 | American Geophysical Union | Cooperation for AbSciCon 2022, 2024 and 2026 | 3/22/2022 | 3/22/2027 | Non-Reimbursable | \$1,050,000 | HQ | | Science | View Signed Agreement |
| 467 | 32453 | Viacom International, Inc. regarding Noggin | Annex 1 Under Umbrella SAA for Artemis-Themed STEM Learning Experiences for Preschool-Aged Children and Their Families | 10/20/2020 | 10/20/2025 | Non-Reimbursable | \$142,250 | HQ | 32453 | Education and/or Public Engagement | View Signed Agreement |
| 468 | 32452 | Viacom International Inc. regarding Noggin | Umbrella SAA for NASA-Themed STEM Learning Experiences for Preschool-Aged Children and Their Families | 10/20/2020 | 10/20/2025 | Non-Reimbursable | \$0 | HQ | 32452 | Education and/or Public Engagement | View Signed Agreement |
| 469 | 32421 | National Oceanic and Atmospheric Administration | OMPS-L Accommodation on JPSS-3 and JPSS-4 | 11/8/2020 | 11/8/2025 | Non-Reimbursable | \$51,497 | HQ | | Science | View Signed Agreement |
| 470 | 32284 | U.S. Space Force, Directorate of Strategic Requirements, Architectures and Analysis | Memorandum of Agreement between the U.S. Space Force and the NASA Science Mission Directorate for Sharing of Space Surveillance Telescope Data | 6/15/2020 | 6/15/2025 | Non-Reimbursable | \$146,000 | HQ | | Science | View Signed Agreement |

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| 471 | 31920 | Federal Aviation Administration | Advanced Air Mobility National Campaign Series | 12/21/2020 | 12/21/2025 | Non-Reimbursable | \$28,072,353 | HQ | 31919 | Aeronautics | View Signed Agreement |
| 472 | 31919 | Federal Aviation Administration | For Demonstration of Promising Aviation Concepts and Technology | 1/4/2021 | 1/4/2026 | Non-Reimbursable | \$0 | HQ | 31919 | Aeronautics | View Signed Agreement |
| 473 | 31562 | U.S. SATELLITE LABORATORY, INC | Annex 1 under Umbrella SAA for Collaboration on the Endeavor Science Teaching Certificate Project | 12/18/2019 | 12/18/2024 | Non-Reimbursable | \$100,350 | HQ | | Aeronautics, Human Exploration and Operations, Science, Space Technology Education and/or Public Engagement | , View Signed Agreement |
| 474 | 31561 | U.S. SATELLITE LABORATORY, INC | Umbrella SAA for Collaboration on Endeavor Science Teacher Certificate Project and STEM Engagement Activities | 12/18/2019 | 12/18/2024 | Non-Reimbursable | \$0 | HQ | | Aeronautics, Human Exploration and Operations, Science, Space Technology Education and/or Public Engagement | , View Signed Agreement |
| 475 | 31223 | UNITED STATES DEPARTMENT OF COMMERCE | Space Radiation Environment Support to NASA | 1/18/2022 | 1/18/2027 | Non-Reimbursable | \$604,877 | HQ | | Human Exploration and Operations | View Signed Agreement |
| 476 | 30979 | Spirit AeroSystems Inc | NRSAA Between NASA and Spirit AeroSystems Inc Under the Space Technology Announcement of Competitive Opportunity 2019, Improved Durability for a Low-Cost Reusable Launch Vehicle Manufactured via Friction Stir Welding | 7/29/2019 | 6/30/2024 | Unfunded | \$1,239,000 | HQ | ACO-2019-070 | Space Technology | View Signed Agreement |
| 477 | 30962 | SIERRA NEVADA CORP | NRSAA Between NASA and Sierra Nevada Corporation Under the Space Technology Announcement of Competitive Opportunity 2019, Scientifically Calibrated In-Flight Imagery | 7/29/2019 | 12/31/2023 | Unfunded | \$3,516,281 | HQ | ACO-2019-062 | Space Technology | View Signed Agreement |
| 478 | 30958 | Advanced Space LLC | NRSAA Between NASA and Advance Space LLC Under the Space Technology Announcement of Competitive Opportunity 2019, Advancing Lunar Navigation Technologies to Enable Exploration and Commercial Development | 7/29/2019 | 9/30/2024 | Unfunded | \$670,696 | HQ | ACO-2019-018 | Space Technology | View Signed Agreement |
| 479 | 30924 | SPACE SYSTEMS LORAL, LLC | NRSAA Between NASA and Space Systems Loral LLC Under the Space Technology Announcement of Competitive Opportunity 2019, Advanced Packaging Methods for Next-Generation Reflectors | 7/29/2019 | 4/30/2024 | Unfunded | \$1,280,000 | HQ | ACO-2019-010 | Space Technology | View Signed Agreement |
| 480 | 29333 | Evergreen Exhibitions | Above and Beyond Touring Exhibit | 3/29/2019 | 3/28/2024 | Non-Reimbursable | \$10,109 | HQ | | Aeronautics, Education and/or Public Engagement | View Signed Agreement |

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| 481 | 28458 | United States Department of Commerce | Maintenance and Operation of the National Geodetic Survey Continuously Operating Reference Stations | 12/18/2019 | 12/18/2024 | Non-Reimbursable | \$33,948 | HQ | | Science | View Signed Agreement |
| 482 | 28420 | Neuron Fuel Inc. dba Tynker | Umbrella Space Act Agreement for Engaging Students in NASA-Themed Coding Activities | 12/20/2018 | 12/20/2023 | Non-Reimbursable | \$0 | HQ | 28420 | Education and/or Public Engagement | View Signed Agreement |
| 483 | 28122 | U.S. Air Force, National Oceanic and Atmospheric Administration, Department of the Navy | Joint Center for Satellite Data Assimilation MOA | 4/20/2021 | 4/20/2026 | Non-Reimbursable | \$8,250,000 | HQ | | Science | View Signed Agreement |
| 484 | 27962 | Department of Commerce, National Oceanic and Atmospheric Administration | Operations-to-Research Collaboration in Space Weather | 11/30/2018 | 11/30/2023 | Non-Reimbursable | \$6,000 | HQ | | Science | View Signed Agreement |
| 485 | 27663 | Health and Human Services, Department of | Nonreimbursable Umbrella IAA with HHS Relating to the Improvement of Human Health and Public Health | 7/31/2018 | 7/31/2028 | Non-Reimbursable | \$367,343 | HQ | | Human Exploration and Operations | View Signed Agreement |
| 486 | 27229 | RFC MEDIA, LLC | Continued Outreach Collaboration on Third Rock Radio | 1/30/2020 | 1/29/2025 | Non-Reimbursable | \$6,473 | HQ | 27229 | Education and/or Public Engagement | View Signed Agreement |
| 487 | 38743 | Astrobotic Technology Inc | IND Network Services in Support of Astrobotic Griffin Mission One (GM1) | 8/24/2023 | 6/24/2025 | Reimbursable | \$1,505,857 | JPL | | Science | View Signed Agreement |
| 488 | 38216 | Texas A&M Engineering Experiment Station | Tractable Autonomy Models for Planning Under Uncertainty | 9/26/2023 | 9/26/2025 | Reimbursable | \$315,000 | JPL | | Science | View Signed Agreement |
| 489 | 37446 | L3Harris Technologies, Inc. | Advancing Positioning, Navigation, and Timing Technologies | 3/8/2023 | 3/8/2026 | Reimbursable | \$309,215 | JPL | | Science | View Signed Agreement |
| 490 | 36647 | Exoterra Resource, LLC | Development and Qualification of ExoTerra's Halo12 Hall Thruster System | 7/19/2022 | 1/19/2026 | Reimbursable | \$6,676,305 | JPL | | Space Technology | View Signed Agreement |

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| 491 | 36173 | Raytheon Company | Generation Global Positioning System (GPS) Control Segment (OCX) Transition to Operations and Sustaining Support | 2/17/2022 | 8/31/2026 | Reimbursable | \$5,382,146 | JPL | Science | View Signed Agreement |
| 492 | 36154 | TELECOMMUNICATION SYSTEMS, INC | Assistance Global Navigation Satellite System (GNSS) Data to TeleCommunication Systems, Inc. (TCS) | 2/16/2022 | 2/15/2025 | Reimbursable | \$5,121,987 | JPL | Science | View Signed Agreement |
| 493 | 35792 | Attollo Engineering, LLC | High-performance long-wavelength infrared detector | 3/7/2022 | 12/7/2025 | Reimbursable | \$666,070 | JPL | Science | View Signed Agreement |
| 494 | 35420 | Planet Labs PBC | Carbon Plume Mapper (CPM) Technology Transfer | 7/29/2022 | 9/29/2024 | Reimbursable | \$363,452 | JPL | Science, Technology Transfer | View Signed Agreement |
| 495 | 35338 | Carbon Mapper, Inc. | Carbon Plume Mapper Risk Reduction Airborne Campaign | 1/13/2022 | 4/13/2025 | Reimbursable | \$5,479,636 | JPL | Science | View Signed Agreement |
| 496 | 34786 | | JPL Integrated GPS Occultation Receiver (IGOR) Software Support for Moog BroadReach (MBR) | 10/21/2021 | 10/21/2024 | Reimbursable | \$225,124 | JPL | Space Technology | View Signed Agreement |
| 497 | 34396 | AEROJET ROCKETDYNE, INC | A Digitally Informed Approach To Enhanced Heat Recovery Through Additive Manufacturing Of "Adaptive Thermoelectric Modules" For Energy Conversion Platforms | 7/21/2021 | 1/21/2025 | Reimbursable | \$943,338 | JPL 34396 | Space Technology | View Signed Agreement |
| 498 | 34171 | Carbon Mapper | Carbon Plume Mapper (CPM) | 3/19/2021 | 10/31/2025 | Reimbursable | \$41,015,825 | JPL | Science | View Signed Agreement |
| 499 | 34074 | GENERAL DYNAMICS MISSION SYSTEMS, INC. | INTELLIGENT ULTRASONIC DRILLING TOOL (IntUDiT) | 11/10/2022 | 5/10/2024 | Reimbursable | \$309,072 | JPL | Space Technology, Technology Transfer | View Signed Agreement |
| 500 | 34060 | BATTELLE MEMORIAL INSTITUTE, INC | National Ecological Observatory Network (NEON) NEON Imaging Spectrometer (NIS)SENSOR SUPPORT | 6/23/2021 | 6/23/2024 | Reimbursable | \$949,880 | JPL | Science | View Signed Agreement |

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| 501 | 34016 | EMBRY-RIDDLE AERONAUTICAL UNIVERSITY | AtmoSense/AIRWaveS: Atmosphere-lonosphere Responses to Wave Signals | 8/18/2021 | 11/18/2023 | Reimbursable | \$894,329 | JPL | | Science | View Signed Agreement |
| 502 | 34008 | Northeastern University | Development of Transmitters and Receivers for THz Communications | 11/17/2021 | 11/17/2023 | Reimbursable | \$200,000 | JPL | | Science | View Signed Agreement |
| 503 | 33889 | Raytheon Company | Next Generation GPS Control Segment (OCX) Block 3F Support | 8/18/2021 | 3/18/2025 | Reimbursable | \$2,581,701 | JPL | | Space Technology, Technology Transfer | View Signed Agreement |
| 504 | 33632 | Veripos (US) Inc. | Global Navigation Satellite Systems Corrections Data to Veripos (US) Inc. | 3/11/2021 | 11/26/2023 | Reimbursable | \$537,892 | JPL | 33632 | Human Exploration and Operations | View Signed Agreement |
| 505 | 33349 | Sienza Inc. | High Energy and Long Cycle Life Li-ion Batteries with Novel Silicon Anode | 2/2/2021 | 2/2/2024 | Reimbursable | \$500,019 | JPL | | Science | View Signed Agreement |
| 506 | 33258 | Citrus College | Pathways in STEM: Cross-Sector Partnerships, Experiential Learning, and Professional Development | 12/15/2020 | 4/27/2027 | Reimbursable | \$274,008 | JPL | | Education and/or Public Engagement | View Signed Agreement |
| 507 | 32586 | GEORGIA INSTITUTE OF TECHNOLOGY | Support to the Development of Advanced Data Compression Techniques (Python) | 10/23/2020 | 10/23/2023 | Reimbursable | \$850,000 | JPL | | Science | View Signed Agreement |
| 508 | 30629 | LOUISIANA STATE UNIVERSITY | Synthetic Aperture Radar Interferometry (InSAR) Evaluation in Support of Louisiana Regional Geospatial Modeling | 12/16/2019 | 9/30/2023 | Reimbursable | \$393,500 | JPL | 82-105663 | Science | View Signed Agreement |
| 509 | 29920 | Photon Spot, Inc. | Superconducting Nanowire Single Photon Detector Technology Development | 3/27/2019 | 4/30/2024 | Reimbursable | \$955,715 | JPL | | Science | View Signed Agreement |
| 510 | 29799 | HARRIS CORP | Navigation Technology Satellite-3 Geosynchronous Earth Orbit Experiment | 4/10/2019 | 9/30/2024 | Reimbursable | \$10,002,633 | JPL | | Science | View Signed Agreement |

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| 511 | 28319 | THE AEROSPACE CORPORATION | EMPIRICAL STUDIES OF RADIATION DAMAGE TO SPACECRAFT ELECTRONICS AND MATERIALS | 5/17/2019 | 5/17/2024 | Reimbursable | \$298,908 | JPL | | Space Technology | View Signed Agreement |
| 512 | 39459 | Soyuz Template | Soyuz Launch OHara | 9/7/2023 | 11/7/2023 | Reimbursable | \$3,960 | JSC | SAA-AA2-23-39459 | Institutional and Mission Support | View Signed Agreement |
| 513 | 39443 | Soyuz Template | Soyuz Launch Ohara | 9/6/2023 | 11/6/2023 | Reimbursable | \$4,500 | JSC | SAA-AA2-23-39443 | Institutional and Mission Support | View Signed Agreement |
| 514 | 39413 | BLUE ORIGIN, LLC | Radiant Heat Testing | 9/19/2023 | 9/19/2024 | Reimbursable | \$133,947 | JSC | SAA-EA-20-29343-45 | Human Exploration and Operations, Space Technology | View Signed Agreement |
| 515 | 39381 | Soyuz Template | Soyuz Launch Reid | 9/6/2023 | 11/6/2023 | Reimbursable | \$3,960 | JSC | SAA-AA2-23-39381 | Institutional and Mission Support | View Signed Agreement |
| 516 | 39379 | Soyuz Template | Soyuz Launch Mulholland | 9/6/2023 | 11/6/2023 | Reimbursable | \$4,500 | JSC | SAA-AA2-23-39379 | Institutional and Mission Support | View Signed Agreement |
| 517 | 39290 | THE DEFENSE HEALTH AGENCY | COLLABORATIVE SPACE MEDICAL RESEARCH | 1/19/2023 | 1/19/2026 | Non-Reimbursable | \$56,151 | JSC | 220506 | Institutional and Mission Support | View Signed Agreement |
| 518 | 39207 | BLUE ORIGIN, LLC | Annex to Conduct Thermal Vacuum Test | 9/29/2023 | 9/29/2024 | Reimbursable | \$6,790,000 | JSC | SAA-EA-20-29343 | Science, Space Technology, Technology Transfer | View Signed Agreement |
| 519 | 39181 | AXIOM SPACE, LLC | Agreement will facilitate materials, fluids, and component testing through the Energy Systems Test Area (ESTA) | 9/29/2023 | 9/29/2026 | Reimbursable | \$1,000,000 | JSC | SAA-RA-22-36162-9 | Human Exploration and Operations, Space Technology | View Signed Agreement |
| 520 | 38921 | Vast Space LLC | COLLABORATIONS FOR COMMERCIAL SPACE CAPABILITIES 2 | 6/13/2023 | 6/13/2028 | Unfunded | \$2,701,693 | JSC | | Human Exploration and Operations | View Signed Agreement |

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| 521 | 38920 | | COLLABORATIONS FOR COMMERCIAL SPACE CAPABILITIES 2 | 6/13/2023 | 6/13/2028 | Unfunded | \$2,690,228 | JSC | | Human Exploration and Operations | View Signed Agreement |
| 522 | 38919 | | COLLABORATIONS FOR COMMERCIAL SPACE CAPABILITIES 2 | 6/13/2023 | 6/13/2028 | Unfunded | \$1,929,191 | JSC | | Human Exploration and Operations | View Signed Agreement |
| 523 | | | COLLABORATIONS FOR COMMERCIAL SPACE CAPABILITIES 2 | 6/13/2023 | 6/13/2028 | Unfunded | \$7,401,016 | JSC | | Human Exploration and Operations | View Signed Agreement |
| 524 | 38917 | Sierra Space Corporation | COLLABORATIONS FOR COMMERCIAL SPACE CAPABILITIES 2 | 6/13/2023 | 6/13/2028 | Unfunded | \$6,828,594 | JSC | | Human Exploration and Operations | View Signed Agreement |
| 525 | 38916 | | COLLABORATIONS FOR COMMERCIAL SPACE CAPABILITIES 2 | 6/13/2023 | 6/13/2028 | Unfunded | \$2,872,733 | JSC | | Human Exploration and Operations | View Signed Agreement |
| 526 | 38915 | BLUE ORIGIN, LLC | COLLABORATIONS FOR COMMERCIAL SPACE CAPABILITIES 2 | 6/13/2023 | 6/13/2028 | Unfunded | \$5,456,173 | JSC | | Human Exploration and Operations | View Signed Agreement |
| 527 | 38882 | Paragon Space Development Corporation | Urine Pretreat: PUP System Evaluation | 9/8/2023 | 3/8/2025 | Non-Reimbursable | \$95,177 | JSC | SAA-EA-23-37725-02 | Human Exploration and Operations, Space Technology | View Signed Agreement |
| 528 | 38839 | 60th Medical Group - Travis Air Force Base | Space Ionizing Radiation Collaborative Investigations | 7/6/2023 | 7/5/2028 | Non-Reimbursable | \$436,197 | JSC | SAA-SK-23-38839 | Human Exploration and Operations | View Signed Agreement |
| 529 | 38712 | OKLAHOMA STATE UNIVERSITY | NONREIMBURSABLE SPACE ACT UMBRELLA AGREEMENT BETWEEN THE NATIONAL AERONAUTICS AND SPACE ADMINISTRATION LYNDON B. JOHNSON SPACE CENTER AND OKLAHOMA STATE UNIVERSITY | 9/15/2023 | 9/15/2028 | Non-Reimbursable | \$76,184 | JSC | SAA-AD-23-38711-01 | Education and/or Public Engagement | View Signed Agreement |
| 530 | 38711 | OKLAHOMA STATE UNIVERSITY | NONREIMBURSABLE SPACE ACT UMBRELLA AGREEMENT BETWEEN THE NATIONAL AERONAUTICS AND SPACE ADMINISTRATION LYNDON B. JOHNSON SPACE CENTER AND OKLAHOMA STATE UNIVERSITY | 9/15/2023 | 9/15/2028 | Non-Reimbursable | \$0 | JSC | SAA-AD-23-38711 | Education and/or Public Engagement | View Signed Agreement |

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|--------|---------------|-------------------------------------|--|----------------|-----------------|-------------------|--------------------------|--------|------------------------------------|---|-----------------------------|
| 531 | 38698 | WILLIAM MARSH RICE UNIVERSITY | The Future of Space Seminar | 5/3/2023 | 5/3/2024 | Non-Reimbursable | \$787 | JSC | SAA-AD-22-36462-04 | Technology Transfer | View Signed Agreement |
| 532 | 38604 | DYNETICS CORP | Basic Mobility Testing | 7/25/2023 | 7/25/2024 | Reimbursable | \$2,244 | JSC | SAA-AA-23-38594-01 | Space Technology | View Signed Agreement |
| 533 | 38594 | DYNETICS CORP | Mobility and Design Testing | 6/27/2023 | 6/27/2024 | Reimbursable | \$0 | JSC | SAA-AA-23-38594 | Space Technology | View Signed Agreement |
| 534 | 38253 | BLUE ORIGIN, LLC | Planning Activities for Future Thermal Vacuum Testing Program | 2/24/2023 | 9/30/2024 | Reimbursable | \$334,980 | JSC | SAA-EA-20-29343-32 | Human Exploration and Operations | View Signed Agreement |
| 535 | 38206 | SPACE EXPLORATION TECHNOLOGIES CORP | Pharmaceutical vacuum stability | 3/9/2023 | 3/9/2025 | Non-Reimbursable | \$7,309 | JSC | | Human Exploration and Operations | View Signed Agreement |
| 536 | 38170 | Arizona State University | ANNEX BETWEEN THE NATIONAL AERONAUTICS AND SPACE ADMINISTRATION LYNDON B. JOHNSON SPACE CENTER AND ARIZONA STATE UNIVERSITY UNDER SPACE ACT UMBRELLA AGREEMENT | 7/19/2023 | 7/14/2028 | Non-Reimbursable | \$76,126 | JSC | SAA-AD-23-38169-01 | Science, Education and/or Public Engagement | View Signed Agreement |
| 537 | 38169 | Arizona State University | Nonreimbursable SAA with The Arizona Board Of Regents For And On Behalf Of Arizona State University For Human Space Exploration, Science And Engineering Research, Stem Engagement And Outreach Initiatives. | 7/14/2023 | 7/14/2028 | Non-Reimbursable | \$0 | JSC | SAA-AD-23-38169 | Education and/or Public Engagement | View Signed Agreement |
| 538 | 38010 | Thomas Jefferson University | Collaborative Research and Educational Activities with Thomas Jefferson University | 2/13/2023 | 2/12/2028 | Non-Reimbursable | \$37,012 | JSC | SAA-SA-23-38010 | Human Exploration and Operations, Education and/or Public Engagement | View Signed Agreement |
| 539 | 37999 | Mojave Energy Systems | Liquid Desiccant Air Conditioning Project | 7/13/2023 | 7/13/2025 | Non-Reimbursable | \$20,827 | JSC | 37999 | Institutional and Mission Support | View Signed Agreement |
| 540 | 37949 | University of Colorado Boulder | ANNEX BETWEEN THE NATIONAL AERONAUTICS AND SPACE ADMINISTRATION LYNDON B. JOHNSON SPACE CENTER AND UNIVERSITY OF COLORADO UNDER SPACE ACT UMBRELLA AGREEMENT | 7/19/2023 | 7/14/2028 | Non-Reimbursable | \$76,126 | JSC | SAA-AD-23-37948-01 | Education and/or Public Engagement | View Signed Agreement |

| ROW NO. | PAM ID NO. | PARTNER NAME | TITLE/PURPOSE | SIGNATURE DATE | EXPIRATION DATE | TYPE OF AGREEMENT | TOTAL ESTIMATED VALUE | CENTER | CENTER TRACKING NUMBER (IF ANY) | EXPECTED AGENCY BENEFIT(S) | LINK TO SIGNED AGREEMENT |
|---------|------------|---|---|----------------|-----------------|-------------------|-----------------------|--------|------------------------------------|---|-----------------------------|
| 541 | 37948 | University of Colorado Boulder | NONREIMBURSABLE SPACE ACT UMBRELLA AGREEMENT BETWEEN THE NATIONAL AERONAUTICS AND SPACE ADMINISTRATION LYNDON B. JOHNSON SPACE CENTER AND UNIVERSITY OF COLORADO FOR UMBRELLA AGREEMENT FOR COLLABORATIVE INITIATIVES IN RESEARCH, TECHNOLOGY DEVELOPMENT, TECHNOLOGY TRANSFER TRAINING, EDUCATION AND OUTREACH | | 7/14/2028 | Non-Reimbursable | \$0 | JSC | SAA-AD-23-37948 | Education and/or Public Engagement | View Signed Agreement |
| 542 | 37928 | Arizona Board of Regents | ANNEX (01) BETWEEN THE NATIONAL AERONAUTICS AND SPACE ADMINISTRATION LYNDON B. JOHNSON SPACE CENTER AND THE ARIZONA BOARD OF REGENTS, UNIVERSITY OF ARIZONA UNDER SPACE ACT UMBRELLA AGREEMENT | 4/7/2023 | 3/13/2028 | Non-Reimbursable | \$68,040 | JSC | SAA-AD-23-37927-01 | Human Exploration and Operations, Education and/or Public Engagement, Technology Transfer | View Signed Agreement |
| 543 | 37927 | Arizona Board of Regents | NONREIMBURSABLE SPACE ACT UMBRELLA AGREEMENT BETWEEN THE NATIONAL AERONAUTICS AND SPACE ADMINISTRATION LYNDON B. JOHNSON SPACE CENTER AND THE ARIZONA BOARD OF REGENTS, UNIVERSITY OF ARIZONA | | 3/13/2028 | Non-Reimbursable | \$0 | JSC | SAA-AD-23-37927 | Education and/or Public Engagement | View Signed Agreement |
| 544 | 37899 | SPACE EXPLORATION TECHNOLOGIES CORP | Medical Technology Demonstrations | 3/23/2023 | 3/23/2027 | Non-Reimbursable | \$79,574 | JSC | SAA-SA-23-37898-01 | Science | View Signed Agreement |
| 545 | | SPACE EXPLORATION TECHNOLOGIES CORP | Human research collaboration | 3/23/2023 | 3/22/2028 | Non-Reimbursable | \$0 | JSC | SAA-SA-23-37898 | Science | View Signed Agreement |
| 546 | 37893 | NEW MEXICO STATE UNIVERSITY | Next Generation Additive Manufacturing for Space Applications | 9/28/2023 | 9/28/2026 | Non-Reimbursable | \$22,086 | JSC | SAA-EA-23-37893 | Human Exploration and Operations, Space Technology | View Signed Agreement |
| 547 | 37863 | North East Independent School District | NEISD School Magnet Programs - STEM and space-focused curriculum | 6/1/2023 | 6/1/2026 | Reimbursable | \$491,394 | JSC | SAA-AD-23-37862-01 | Education and/or Public Engagement | View Signed Agreement |
| 548 | 37862 | North East Independent School District | North East Independent School District - Collaboration for STEM Engagement, Education, and Community Outreach Activities | 6/1/2023 | 6/1/2028 | Reimbursable | \$0 | JSC | SAA-AD-23-37862 | Education and/or Public Engagement | View Signed Agreement |
| 549 | 37845 | Weill Medical College of Cornell University | Annex ONE under the Reimbursable Umbrella Agreement for Biomedical Analysis | 8/17/2023 | 8/16/2028 | Reimbursable | \$89,249 | JSC | SAA-SA-23-37844-01 | Human Exploration and Operations | View Signed Agreement |
| 550 | 37844 | Weill Medical College of Cornell University | Reimbursable Umbrella Agreement for Biomedical Analysis | 8/17/2023 | 8/16/2028 | Reimbursable | \$0 | JSC | SAA-SA-23-37844 | Human Exploration and Operations | View Signed Agreement |

| ROW NO | . PAM ID NO. | PARTNER NAME | TITLE/PURPOSE | SIGNATURE DATE | EXPIRATION DATE | TYPE OF AGREEMENT | TOTAL ESTIMATED VALUE | CENTER | CENTER TRACKING NUMBER (IF ANY) | EXPECTED AGENCY BENEFIT(S) | LINK TO SIGNED AGREEMENT |
|--------|--------------|---|---|----------------|-----------------|-------------------|--------------------------|--------|------------------------------------|--|-----------------------------|
| 551 | 37829 | Houston Livestock Show and Rodeo, Inc. | Reimbursable Space Act Agreement Between National Aeronautics and Space Administration Lyndon B. Johnson Space Center and Houston Livestock Show and Rodeo, Inc. for Texas High School Aerospace Scholars | 5/30/2023 | 5/29/2024 | Reimbursable | \$100,000 | JSC | SAA-AD-23-37829 | Education and/or Public Engagement | View Signed Agreement |
| 552 | 37822 | VENUS AEROSPACE CORPORATION | Annex for Structural and Vibration Experimentation | 4/12/2023 | 4/12/2024 | Reimbursable | \$51,400 | JSC | SAA-AA-22-37098-02 | Space Technology | View Signed Agreement |
| 553 | 37784 | PURDUE UNIVERSITY | ANNEX BETWEEN THE NATIONAL AERONAUTICS AND SPACE ADMINISTRATION LYNDON B. JOHNSON SPACE CENTER AND PURDUE UNIVERSITY SYSTEM UNDER SPACE ACT UMBRELLA AGREEMENT | 5/23/2023 | 5/15/2028 | Non-Reimbursable | \$51,793 | JSC | SAA-AD-23-37784 | Education and/or Public Engagement | View Signed Agreement |
| 554 | 37783 | PURDUE UNIVERSITY | NONREIMBURSABLE SPACE ACT UMBRELLA AGREEMENT BETWEEN THE NATIONAL AERONAUTICS AND SPACE ADMINISTRATION LYNDON B. JOHNSON SPACE CENTER AND PURDUE UNIVERSITY FOR COLLABORATIVE ACTIVITES. | 5/15/2023 | 5/15/2028 | Non-Reimbursable | \$0 | JSC | SAA-AD-23-37783 | Technology Transfer | View Signed Agreement |
| 555 | 37769 | Texas Tech University System | ANNEX 01 BETWEEN THE NATIONAL AERONAUTICS AND SPACE ADMINISTRATION LYNDON B. JOHNSON SPACE CENTER AND THE TEXAS TECH UNIVERSITY SYSTEM UNDER SPACE ACT UMBRELLA AGREEMENT NO. 37768 | 9/1/2023 | 8/29/2028 | Non-Reimbursable | \$76,127 | JSC | SAA-AD-23-37768-01 | Education and/or Public Engagement, Technology Transfer | View Signed Agreement |
| 556 | 37768 | The Texas Tech University System | Umbrella Agreement with THE TEXAS TECH UNIVERSITY SYSTEM FOR COLLABORATIVE INITIATIVES IN RESEARCH, TECHNOLOGY DEVELOPMENT, TECHNOLOGY TRANSFER TRAINING, EDUCATION AND OUTREACH. | 8/29/2023 | 8/29/2028 | Non-Reimbursable | \$0 | JSC | SAA-AD-23-37768 | Education and/or Public Engagement | View Signed Agreement |
| 557 | 37726 | Paragon Space Development Corporation | Pressurized Transfer System | 4/12/2023 | 10/12/2024 | Non-Reimbursable | \$609,696 | JSC | SAA-EA-23-37725-01 | Space Technology | View Signed Agreement |
| 558 | 37725 | Paragon Space Development Corporation | Collaboration Projects, Technology Development, and Technology Transfer | 4/11/2023 | 4/11/2028 | Non-Reimbursable | \$0 | JSC | SAA-EA-23-37725 | Space Technology | View Signed Agreement |
| 559 | 13/683 | | NONREIMBURSABLE SPACE ACT AGREEMENT BETWEEN THE NATIONAL AERONAUTICS AND SPACE ADMINISTRATION LYNDON B. JOHNSON SPACE CENTER AND HOUSTON LIVESTOCK SHOW & RODEO FOR COMMUNITY RELATIONS AND EDUCATION OUTREACH ACTIVITIES | 2/23/2023 | 2/23/2028 | Non-Reimbursable | \$181,580 | JSC | SAA-AD-23-37683 | Institutional and Mission Support | View Signed Agreement |
| 560 | 37441 | CHEVAL DE FEU AEROSPACE CORPORATION, DBA LAMONT AEROSPACE | Development of Common On-orbit Research Environment (CORE) | 4/10/2023 | 4/10/2026 | Non-Reimbursable | \$66,017 | JSC | SAA-XA-22-37441 | Space Technology | View Signed Agreement |

| ROW NO | PAM ID NO. | PARTNER NAME | TITLE/PURPOSE | SIGNATURE DATE | EXPIRATION DATE | TYPE OF AGREEMENT | . TOTAL ESTIMATED VALUE | CENTER | CENTER TRACKING NUMBER (IF ANY) | EXPECTED AGENCY BENEFIT(S) | LINK TO SIGNED AGREEMENT |
|--------|------------|--|---|----------------|-----------------|-------------------|----------------------------|--------|------------------------------------|---|-----------------------------|
| 561 | 37429 | Washington University | SHOCK-RECOVERY EXPERIMENTS | 6/28/2023 | 6/28/2025 | Reimbursable | \$34,074 | JSC | SAA-XI-23-37429 | Science | View Signed Agreement |
| 562 | 37410 | The Procter & Gamble Company | Annex 2: Cleaning Clothing in Space | 12/16/2022 | 8/18/2025 | Non-Reimbursable | \$154,215 | JSC | SAA-EA-20-31321-02 | Human Exploration and Operations, Space Technology | View Signed Agreement |
| 563 | 37378 | IKBB WATE SEBVICES TITE | Annex FOUR to HUMAN HEALTH AND PERFORMANCE FACILITIES UTILIZATION | 9/6/2022 | 10/31/2025 | Reimbursable | \$76,853 | JSC | SAA-SA-21-34167-04 | Human Exploration and Operations | View Signed Agreement |
| 564 | 37290 | SPACE EXPLORATION TECHNOLOGIES CORPORATION | NASA Certification of SpaceX Pyrotechnic Materials | 1/16/2023 | 1/16/2028 | Reimbursable | \$345,263 | JSC | SAA-EA-23-37290 | Human Exploration and Operations | View Signed Agreement |
| 565 | 37214 | | MICROMETEROID AND ORBITAL DEBRIS SHIELDING DEVELOPMENT | 4/11/2023 | 10/11/2024 | Reimbursable | \$92,945 | JSC | SAA-XI-23-37214 | Science | View Signed Agreement |
| 566 | | BAY AREA HOUSTON ECONOMIC PARTNERSHIP | Cooperative and Community Outreach Activities | 10/7/2022 | 10/6/2027 | Non-Reimbursable | \$286,194 | JSC | SAA-AD-22-37124 | Education and/or Public Engagement | View Signed Agreement |
| 567 | 37113 | AXIOM SPACE, INC. | Sabatier Subject Matter Expertise | 9/14/2022 | 3/14/2024 | Reimbursable | \$123,072 | JSC | SAA-RA-22-36162-03 | Human Exploration and Operations | View Signed Agreement |
| 568 | 37099 | VENUS AEROSPACE CORPORATION | Hypersonic Aircraft and Rocket Propulsion Research and Development | 12/5/2022 | 12/5/2024 | Reimbursable | \$147,841 | JSC | SAA-AA-22-37098-01 | Space Technology | View Signed Agreement |
| 569 | 37098 | | HYPERSONIC AIRCRAFT & ROCKET PROPULSION RESEARCH, DEVELOPMENT, AND COLLABORATION | 11/3/2022 | 11/2/2025 | Reimbursable | \$0 | JSC | SAA-AA-22-37098 | Space Technology | View Signed Agreement |
| 570 | | Naval Medical Leader & Professional Development Command | Memorandum of Understanding for Naval Trainee Fellowship | 12/1/2022 | 12/31/2024 | Non-Reimbursable | \$257,620 | JSC | IAA-SA-23-37055 | Human Exploration and Operations, Education and/or Public Engagement | View Signed Agreement |

| ROW NO | PAM ID NO. | PARTNER NAME | TITLE/PURPOSE | SIGNATURE DATE | EXPIRATION DATE | TYPE OF AGREEMENT | . TOTAL ESTIMATED VALUE | CENTER | CENTER TRACKING NUMBER (IF ANY) | EXPECTED AGENCY BENEFIT(S) | LINK TO SIGNED AGREEMENT |
|--------|------------|--------------------------------|---|----------------|-----------------|-------------------|----------------------------|--------|------------------------------------|--|-----------------------------|
| 571 | 37042 | UNIVERSITY OF TEXAS AT EL PASO | Digital Engineering Design Center | 1/30/2023 | 1/30/2025 | Non-Reimbursable | \$790,712 | JSC | SAA-EA-23-37041-01 | Human Exploration and Operations, Space Technology, Education and/or Public Engagement | View Signed Agreement |
| 572 | 37041 | UNIVERSITY OF TEXAS AT EL PASO | Collaborative Initiatives in Research, Technology Development, Technology Transfer, Education and Outreach | 1/30/2023 | 1/30/2028 | Non-Reimbursable | \$0 | JSC | SAA-EA-23-37041 | Human Exploration and Operations, Space Technology, Education and/or Public Engagement | View Signed Agreement |
| 573 | 37016 | BLUE ORIGIN, LLC | MMOD Annex to Engineering Analysis and Testing | 9/21/2022 | 9/21/2024 | Reimbursable | \$278,197 | JSC | SAA-EA-20-29343-21 | Science | View Signed Agreement |
| 574 | 36940 | | Annex FIVE to Human Health and Performance Facilities Utilization Reimbursable SAA | 10/12/2022 | 10/31/2025 | Reimbursable | \$69,406 | JSC | SAA-SA-21-34167-05 | Human Exploration and Operations | View Signed Agreement |
| 575 | 36832 | Pioneer Astronautics | Clear Dust Repelling Coating Testing | 7/22/2022 | 7/22/2025 | Non-Reimbursable | \$8,328 | JSC | SAA-XA-22-36832 | Space Technology | View Signed Agreement |
| 576 | 36823 | Electric Power Systems | Screened Lithium-ion Cells | 10/14/2022 | 10/14/2023 | Reimbursable | \$208,050 | JSC | SAA-EA-22-36822-01 | Human Exploration and Operations | View Signed Agreement |
| 577 | 36822 | Electric Power Systems | Safe Lithium-ion Cells | 10/14/2022 | 10/14/2027 | Reimbursable | \$0 | JSC | SAA-EA-22-36822 | Human Exploration and Operations | View Signed Agreement |
| 578 | 36811 | INTUITIVE MACHINES, LLC | Modal Propellant Gauge Avionics and Flight | 8/24/2022 | 8/24/2025 | Non-Reimbursable | \$48,445 | JSC | SAA-EA-22-36811 | Space Technology | View Signed Agreement |
| 579 | 36759 | BLUE ORIGIN, LLC | Window Design and Development Expertise and Planning | 8/1/2022 | 2/8/2025 | Reimbursable | \$215,656 | JSC | SAA-EA-20-29343-18 | Human Exploration and Operations, Space Technology | View Signed Agreement |
| 580 | 36724 | WILLIAM MARSH RICE UNIVERSITY | Annex to further synergistic educational initiatives | 7/14/2022 | 7/14/2027 | Non-Reimbursable | \$68,656 | JSC | 1 | Technology Transfer | View Signed Agreement |

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| 581 | 36723 | WILLIAM MARSH RICE UNIVERSITY | The Ion STEM Dissemination Program | 7/14/2022 | 7/14/2027 | Non-Reimbursable | \$0 | JSC | SAA-XA-22-36723 | Institutional and Mission Support | View Signed Agreement |
| 582 | 36635 | | Annex THREE to HUMAN HEALTH AND PERFORMANCE FACILITIES UTILIZATION | 7/7/2022 | 10/31/2025 | Reimbursable | \$86,208 | JSC | SAA-SA-21-34167-03 | Human Exploration and Operations | View Signed Agreement |
| 583 | 36612 | AXIOM SPACE, INC. | Propulsion Systems Design Consulting, Analysis, and Test Support | 8/4/2022 | 2/4/2024 | Reimbursable | \$381,966 | JSC | SAA-RA-22-36162-02 | Human Exploration and Operations | View Signed Agreement |
| 584 | | CENTERS FOR DISEASE CONTROL AND PREVENTION | Memorandum of Agreement for Biomedical Research Between the National Aeronautics and Space Administration Lyndon B. Johnson Space Center and the Centers for Disease Control and Prevention National Center for Emerging and Zoonotic Infectious Diseases | | 8/1/2027 | Non-Reimbursable | \$100,547 | JSC | IAA-SA-22-36554 | Human Exploration and Operations | View Signed Agreement |
| 585 | | | Non-Reimbursable Space Act Agreement With Texas Parks And Wildlife Department | 6/28/2022 | 10/1/2026 | Non-Reimbursable | \$8,218 | JSC | SAA-JA-22-36519 | Education and/or Public Engagement | View Signed Agreement |
| 586 | 36471 | Texas Southern University | Technology Research Initiatives | 7/8/2022 | 7/8/2027 | Non-Reimbursable | \$0 | JSC | SAA-XA-22-36471 | Technology Transfer | View Signed Agreement |
| 587 | 36465 | SCIENCE CENTER AT HOUSTON, ON | Annex-1 Under Nonreimbursable Umbrella SAA Between NASA JSC and the UT Health Science Center at Houston, on Behalf of its School of Public Health, for Research and Educational Activities | 9/22/2022 | 9/21/2027 | Non-Reimbursable | \$20,175 | JSC | SAA-SA-22-36464-01 | Science, Education and/or Public Engagement | View Signed Agreement |
| 588 | 13h/lh/l | THE UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER | Nonreimbursable Umbrella Space Act Agreement Between NASA JSC and the UT Health Science Center at Houston, on Behalf of its School of Public Health for Research and Education | 9/22/2022 | 9/21/2027 | Non-Reimbursable | \$0 | JSC | SAA-SA-22-36464 | Science, Education and/or Public Engagement | View Signed Agreement |
| 589 | 36463 | WILLIAM MARSH RICE UNIVERSITY | Annex-1 Nonreimbursable Space Act Agreement Between the National Aeronautics and Space Administration Lyndon B. Johnson Space Center and William Marsh Rice University for Collaborative Research, Education and Outreach Activities | 8/22/2022 | 8/17/2027 | Non-Reimbursable | \$49,122 | JSC | SAA-AD-22-36462-01 | Science, Education and/or Public Engagement | View Signed Agreement |
| 590 | 36462 | | Nonreimbursable Space Act Umbrella Agreement Between the National Aeronautics and Space Administration Lyndon B. Johnson Space Center and William Marsh Rice University for Collaborative Research, Education and Outreach Activities | 8/18/2022 | 8/17/2027 | Non-Reimbursable | \$0 | JSC | SAA-AD-22-36462 | Science, Education and/or Public Engagement | View Signed Agreement |

| ROW N | D. PAM ID NO. | PARTNER NAME | TITLE/PURPOSE | SIGNATURE DATE | EXPIRATION DATE | TYPE OF AGREEMENT | TOTAL ESTIMATED VALUE | CENTER | CENTER TRACKING NUMBER (IF ANY) | EXPECTED AGENCY BENEFIT(S) | LINK TO SIGNED AGREEMENT |
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| 591 | 36438 | SPACE EXPLORATION TECHNOLOGIES CORPORATION | NON-NASA MISSIONS AND COMMERCIAL SPACE SYSTEM DEVELOPMENTS | 8/25/2022 | 7/14/2026 | Reimbursable | \$7,135,420 | JSC | SAA-UA-21-34284-02 | Human Exploration and Operations | View Signed Agreement |
| 592 | 36359 | INTUITIVE MACHINES, LLC | Loan of Propellant Tanks | 5/2/2022 | 5/2/2024 | Non-Reimbursable | \$2,791 | JSC | SAA-EA-22-36359 | Space Technology | View Signed Agreement |
| 593 | 36332 | The Methodist Hospital | Nonreimbursable Space Act Agreement Between The National Aeronautics and Space Administration Lyndon B. Johnson Space Center and The Methodist Hospital for Orthopedic Sports Medicine Collaboration | 7/5/2022 | 7/5/2027 | Non-Reimbursable | \$106,330 | JSC | SAA-SA-22-36332 | Human Exploration and Operations, Education and/or Public Engagement | View Signed Agreement |
| 594 | 36217 | Colgate-Palmolive Company | COLLABORATION ON HUMAN PERFORMANCE, INNOVATION & SUSTAINABILITY | 5/23/2022 | 5/23/2027 | Non-Reimbursable | \$166,285 | JSC | SAA-OZ-22-36217 | Human Exploration and Operations | View Signed Agreement |
| 595 | 36178 | Web Vision Centers Group, LLC | Vision diagnostics, testing techniques and devices | 9/19/2022 | 9/18/2027 | Non-Reimbursable | \$87,228 | JSC | SAA-SA-22-36178 | Human Exploration and Operations | View Signed Agreement |
| 596 | 35985 | Alpha Space Test and Research Alliance, LL0 | C ISS related Commercial Activities | 2/3/2022 | 2/2/2024 | Reimbursable | \$30,964 | JSC | SAA-UA-23-35985 | Human Exploration and Operations | View Signed Agreement |
| 597 | 35889 | TEXAS A&M ENGINEERING EXPERIMENT STATION | Robotics and Related Technologies | 4/26/2023 | 4/26/2025 | Reimbursable | \$400,000 | JSC | SAA-EA-23-35888-01 | Human Exploration and Operations, Education and/or Public Engagement | View Signed Agreement |
| 598 | 35888 | TEXAS A&M ENGINEERING EXPERIMENT STATION | Collaborative Technology Development, Innovation, and Research | 4/24/2023 | 4/24/2028 | Reimbursable | \$0 | JSC | SAA-EA-23-35888 | Human Exploration and Operations, Education and/or Public Engagement | View Signed Agreement |
| 599 | 35807 | BLUE ORIGIN, LLC | Commercial Destinations - Free Flyer Phase 1 (Blue Origin) | 12/1/2021 | 12/1/2026 | Funded | \$140,000,000 | JSC | JSC-UA-21-35807 | Human Exploration and Operations | View Signed Agreement |
| 600 | 35806 | Northrop Grumman | Commercial Destinations - Free Flyer Phase 1 (Northrop Grumman) | 12/1/2021 | 10/3/2023 | Funded | \$125,600,000 | JSC | JSC-UA-21-35806 | Human Exploration and Operations | View Signed Agreement |

| ROW N | D. PAM ID NO. | PARTNER NAME | TITLE/PURPOSE | SIGNATURE DATE | EXPIRATION DATE | TYPE OF AGREEMENT | TOTAL ESTIMATED VALUE | CENTER | CENTER TRACKING NUMBER (IF ANY) | EXPECTED AGENCY BENEFIT(S) | LINK TO SIGNED AGREEMENT |
|-------|---------------|--|---|----------------|-----------------|-------------------|--------------------------|--------|------------------------------------|--|-----------------------------|
| 601 | 35805 | NANORACKS, LLC | Commercial Destinations - Free Flyer Phase 1 (Nanoracks) | 12/1/2021 | 12/1/2026 | Funded | \$217,500,000 | JSC | JSC-UA-21-35805 | Human Exploration and Operations | View Signed Agreement |
| 602 | 35689 | BLUE ORIGIN, LLC | Lunar Lander System Technologies | 12/13/2021 | 12/13/2024 | Reimbursable | \$1,779,703 | JSC | SAA-EA-22-35689 | Human Exploration and Operations, Space Technology | View Signed Agreement |
| 603 | 35680 | KBR WYLE SERVICES, LLC | Annex Two NASA NEUTRAL BUOYANCY LABORATORY FACILITY USAGE AGREEMENT | 12/6/2021 | 10/31/2025 | Reimbursable | \$23,341 | JSC | SAA-SA-21-34167-02 | Human Exploration and Operations | View Signed Agreement |
| 604 | 35569 | LifeShip, Inc. | ISS Commercial Activities | 1/4/2022 | 1/3/2024 | Reimbursable | \$1,200 | JSC | SAA-UA-23-35569 | Human Exploration and Operations | View Signed Agreement |
| 605 | 35557 | Texas A&M Engineering Experiment Station | Reimbursable Space Act Agreement Between National Aeronautics and Space Administration and Texas A&M Engineering Experiment Station for Texas Aerospace Scholars | 3/25/2022 | 3/25/2024 | Reimbursable | \$999,616 | JSC | SAA-AD-22-35557 | Education and/or Public Engagement | View Signed Agreement |
| 606 | 35522 | TEXAS A&M UNIVERSITY SYSTEM | Collaborative Activities | 5/3/2022 | 5/3/2024 | Non-Reimbursable | \$122,668 | JSC | SAA-AD-21-35522-01 | Technology Transfer | View Signed Agreement |
| 607 | 35521 | TEXAS A&M UNIVERSITY SYSTEM | Collaborative Activities | 5/3/2022 | 5/3/2025 | Non-Reimbursable | \$0 | JSC | SAA-AD-21-35521 | Education and/or Public Engagement, Technology Transfer | View Signed Agreement |
| 608 | 35459 | Passaic County Technical-Vocational Schools | Programs to inspire the next generation of explorers through hands-on projects for high school students. | 3/7/2022 | 3/6/2027 | Non-Reimbursable | \$14,420 | JSC | SAA-OA-22-35459 | Human Exploration and Operations | View Signed Agreement |
| 609 | 35410 | CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT | Programs to inspire the next generation of explorers through hands-on projects for high school students. | 11/10/2021 | 11/9/2026 | Non-Reimbursable | \$73,892 | JSC | SAA-OA-22-35410 | Human Exploration and Operations | View Signed Agreement |
| 610 | 35408 | CONROE INDEPENDENT SCHOOL DISTRICT | Programs to inspire the next generation of explorers through hands-on projects for high school students. | 12/13/2021 | 12/12/2026 | Non-Reimbursable | \$67,949 | JSC | SAA-OA-22-35408 | Human Exploration and Operations | View Signed Agreement |

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|-------|---------------|--|--|----------------|-----------------|-------------------|--------------------------|--------|------------------------------------|--|-----------------------------|
| 611 | 35401 | CLEAR CREEK INDEPENDENT SCHOOL DISTRICT | Programs to inspire the next generation of explorers through hands-on projects for high school students. | 12/13/2021 | 12/12/2026 | Non-Reimbursable | \$61,699 | JSC | SA-OA-22-35401 | Human Exploration and Operations | View Signed Agreement |
| 612 | 35285 | UNIVERSITY OF HOUSTON | FOR HANDLING OF HISTORIC SPACEFLIGHT DOCUMENTS | 8/11/2022 | 8/11/2027 | Non-Reimbursable | \$11,349 | JSC | SAA-XA-21-35285 | Institutional and Mission Support | View Signed Agreement |
| 613 | 35247 | Underwriters Laboratories Inc. | Battery Analysis and Testing | 12/17/2021 | 12/17/2023 | Reimbursable | \$200,000 | JSC | SAA-EA-22-35247 | Human Exploration and Operations | View Signed Agreement |
| 614 | 35162 | Uplift Aerospace | Uplift Aerospace Commercial Activities | 11/20/2021 | 11/19/2023 | Reimbursable | \$1,210,000 | JSC | | Human Exploration and Operations | View Signed Agreement |
| 615 | 35077 | ASTROBOTIC TECHNOLOGY, INC | Guidance Solutions for Griffin Lunar Lander | 3/11/2022 | 9/30/2023 | Reimbursable | \$156,578 | JSC | SAA-EA-22-35077 | Human Exploration and Operations, Space Technology | View Signed Agreement |
| 616 | 34689 | Texas A&M Engineering Experiment Station | Lunar Surface Payload / Early Prototype Testing of Dust Sensor | 3/24/2022 | 3/24/2025 | Non-Reimbursable | \$307,406 | JSC | SAA-EA-22-34689 | Human Exploration and Operations | View Signed Agreement |
| 617 | 34659 | Walter Dorwin Teague Associates, Inc. | Habitat Layout Trade Studies for Analog Missions and Concepts | 7/21/2021 | 7/21/2026 | Non-Reimbursable | \$5,303 | JSC | SAA-EA-21-34659 | Human Exploration and Operations | View Signed Agreement |
| 618 | 34641 | BAY AREA EMERGENCY RESPONDERS | RECIPROCAL USE OF EMERGENCY OPERATIONS CENTERS | 6/23/2022 | 6/23/2027 | Non-Reimbursable | \$1,000 | JSC | SAA-JA-21-34641 | Institutional and Mission Support | View Signed Agreement |
| 619 | 34640 | UNIVERSITY OF HOUSTON | STEM Engagement Activities for Pre-Service Teachers | 12/15/2021 | 12/15/2024 | Non-Reimbursable | \$233,082 | JSC | SAA-AD-22-34640-01 | Education and/or Public Engagement | View Signed Agreement |
| 620 | 34448 | L2 Solutions | SEOPS / Dianna Rae Jewelry | 10/9/2021 | 10/8/2023 | Reimbursable | \$120,000 | JSC | SAA-UA-21-34448 | Human Exploration and Operations | View Signed Agreement |

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|--------|------------|-------------------------|---|----------------|-----------------|-------------------|----------------------------|--------|------------------------------------|--|-----------------------------|
| 621 | 34314 | Orbit Fab, Inc. | Small Satellite Proximity Operations & Refueling Technologies | 6/7/2021 | 6/7/2025 | Non-Reimbursable | \$10,311 | JSC | SAA-EA-21-34314 | Human Exploration and Operations | View Signed Agreement |
| 622 | | | COMMERCIAL SPACE SYSTEM OPERATIONS AND DEVELOPMENTS | 7/14/2021 | 7/14/2026 | Reimbursable | \$0 | JSC | SAA-UA-21-34284 | | View Signed Agreement |
| 623 | 34279 | | ISS Antenna Manager Software Upgrade for United States Air Force Academy Capstone Project | 4/30/2021 | 9/30/2024 | Non-Reimbursable | \$15,185 | JSC | SAA-CA-21-34279 | Space Technology | View Signed Agreement |
| 624 | 34173 | UNIVERSITY OF HOUSTON | Non-Reimbursable Space Act Umbrella Agreement for Collaborative initiatives in research, technology development, technology transfer training, education and outreach | 1/14/2022 | 1/13/2027 | Non-Reimbursable | \$0 | JSC | SAA-AD-22-34173 | Education and/or Public Engagement, Technology Transfer | View Signed Agreement |
| 625 | 34168 | | ANNEX ONE for HUMAN HEALTH AND PERFORMANCE FACILITIES UTILIZATION | 5/26/2021 | 10/31/2025 | Reimbursable | \$691,554 | JSC | SAA-SA-21-34167-01 | Science | View Signed Agreement |
| 626 | 34167 | KBR WYLE SERVICES, LLC | HUMAN HEALTH AND PERFORMANCE FACILITIES UTILIZATION | 5/26/2021 | 10/31/2025 | Reimbursable | \$0 | JSC | SAA-SA-21-34167 | | View Signed Agreement |
| 627 | 34138 | INTUITIVE MACHINES, LLC | Annex 1 to Engineering Analysis and Testing | 5/26/2021 | 12/31/2023 | Reimbursable | \$323,606 | JSC | SAA-EA-21-34138 | Space Technology | View Signed Agreement |
| 628 | 34137 | INTUITIVE MACHINES, LLC | Engineering Analysis and Testing | 5/26/2021 | 5/26/2026 | Reimbursable | \$0 | JSC | SAA-XA-21-34137 | Space Technology | View Signed Agreement |
| 629 | 33921 | | Programs to inspire the next generation of explorers through hands-on projects for high school students. | 10/20/2021 | 10/19/2026 | Non-Reimbursable | \$3,139 | JSC | SAA-OA-22-33921 | Human Exploration and Operations | View Signed Agreement |
| 630 | 33915 | | Programs to inspire the next generation of explorers through hands-on projects for high school students. | 10/13/2021 | 10/12/2026 | Non-Reimbursable | \$3,138 | JSC | SAA-OA-22-33915 | Human Exploration and Operations | View Signed Agreement |

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| 631 | 33898 | Vincin Onbit | Annex to Reimbursable Umbrella Space Act Agreement between NASA Ames Research Center and Virgin Orbit, LLC for Analysis and Simulation of a Transport Aircraft as a Launch Platform | 2/11/2021 | 2/11/2024 | Reimbursable | \$77,437 | JSC | SAA2-403586 | Space Technology | View Signed Agreement |
| 632 | 33880 | | Programs to inspire the next generation of explorers through hands-on projects for high school students. | 10/20/2021 | 10/19/2026 | Non-Reimbursable | \$3,138 | JSC | SAA-OA-22-33880 | Human Exploration and Operations | View Signed Agreement |
| 633 | 13387U | | Programs to inspire the next generation of explorers through hands-on projects for high school students. | 10/18/2021 | 10/18/2026 | Non-Reimbursable | \$3,139 | JSC | SAA-OA-22-33879 | Human Exploration and Operations | View Signed Agreement |
| 634 | 33878 | | Programs to inspire the next generation of explorers through hands-on projects for high school students. | 11/8/2021 | 11/7/2026 | Non-Reimbursable | \$3,139 | JSC | SAA-OA-22-33878 | Human Exploration and Operations | View Signed Agreement |
| 635 | 33872 | The University of North Carolina at Charlotte | Collaboration on the Mechanical Failure of Li-lon Cylindrical Cell | 11/5/2021 | 11/5/2023 | Non-Reimbursable | \$94,558 | JSC | SAA-EA-22-33872 | Human Exploration and Operations | View Signed Agreement |
| 636 | 33869 | LINCOLN TECHNICAL INSTITUTE | LINCOLN TECHNICAL INSTITUTE STUDENTS COLLABORATING WITH NASA UNDER THE HUNCH PROGRAM | 10/20/2021 | 10/19/2026 | Non-Reimbursable | \$3,139 | JSC | SAA-OA-20-33869 | Human Exploration and Operations | View Signed Agreement |
| 637 | 33848 | Amateur Radio on the International Space Station - USA | Amateur Radio on the ISS | 3/23/2021 | 3/23/2026 | Reimbursable | \$429,353 | JSC | | Education and/or Public Engagement | View Signed Agreement |
| 638 | 33776 | Amazon.com Services LLC | Project Kuiper MMOD Risk Assessment | 5/19/2021 | 12/31/2023 | Reimbursable | \$1,281,689 | JSC | SAA-XI-21-33776 | Space Technology | View Signed Agreement |
| 639 | 33744 | | Programs to inspire the next generation of explorers through hands-on projects for high school students. | 8/12/2021 | 8/11/2026 | Non-Reimbursable | \$61,713 | JSC | SAA-OA-20-33744 | Human Exploration and Operations | View Signed Agreement |
| 640 | 33709 | Expanding Frontiers | Technology Utilization | 6/28/2021 | 6/28/2024 | Non-Reimbursable | \$0 | JSC | SAA-XB-21-33709 | Technology Transfer | View Signed Agreement |

| ROW N | O. PAM ID NO. | PARTNER NAME | TITLE/PURPOSE | SIGNATURE DATE | EXPIRATION DATE | TYPE OF AGREEMENT | TOTAL ESTIMATED VALUE | CENTER | CENTER TRACKING NUMBER (IF ANY) | EXPECTED AGENCY BENEFIT(S) | LINK TO SIGNED AGREEMENT |
|-------|---------------|--|--|----------------|-----------------|-------------------|--------------------------|--------|------------------------------------|------------------------------------|-----------------------------|
| 641 | 33505 | Mass Challenge Houston | COOPERATIVE SPACE COMMERCIALIZATION ACTIVITIES | 4/30/2021 | 4/30/2024 | Non-Reimbursable | \$0 | JSC | SAA-XA-20-33505 | Technology Transfer | View Signed Agreement |
| 642 | 33386 | Houston Cinema Arts Society | Houston Cinema Arts Society (HCAS) CineSpace | 10/24/2021 | 10/24/2026 | Non-Reimbursable | \$619,202 | JSC | | Education and/or Public Engagement | View Signed Agreement |
| 643 | 33229 | United States Coast Guard | USCG Training Operations at the Neutral Buoyancy Laboratory | 2/8/2021 | 2/8/2026 | Reimbursable | \$60,000 | JSC | SAA-CA-21-33229 | Institutional and Mission Support | View Signed Agreement |
| 644 | 32919 | UNIVERSITY OF TEXAS MEDICAL BRANCH | UTMB DIETETIC STUDENT EXPERIENCE AT NASA | 8/12/2020 | 8/12/2025 | Non-Reimbursable | \$37,971 | JSC | 32919 | Science | View Signed Agreement |
| 645 | 32778 | Planet | ISS and Planet Operational Agreement | 1/5/2021 | 1/4/2026 | Non-Reimbursable | \$42,065 | JSC | SAA-CA-21-32778 | Human Exploration and Operations | View Signed Agreement |
| 646 | 32760 | Cheval de Feu Aerospace Corporation, dba LaMont Aerospace | FOR LOW-EARTH ORBIT COMMERCIAL SERVICES DEVELOPMENT | 2/11/2021 | 2/10/2026 | Non-Reimbursable | \$25,020 | JSC | SAA-OZ-21-32760 | Human Exploration and Operations | View Signed Agreement |
| 647 | 32738 | Limitless Space Institute | Advanced Power and Propulsion Partnership | 4/18/2021 | 4/18/2026 | Reimbursable | \$27,147 | JSC | SAA-EA-21-32738 | Human Exploration and Operations | View Signed Agreement |
| 648 | 32690 | ARMAND BAYOU NATURE CENTER | Environmental Education Programs | 7/23/2020 | 7/23/2025 | Non-Reimbursable | \$19,075 | JSC | SAA-JA-32690 | Institutional and Mission Support | View Signed Agreement |
| 649 | 32660 | United States Coast Guard, Maritime Safety and Security Team (MSST) 91104 | Reciprocal Support During Area Emergencies | 7/29/2020 | 7/29/2025 | Non-Reimbursable | \$6,249 | JSC | SAA-JA-20-32660 | Institutional and Mission Support | View Signed Agreement |
| 650 | 32425 | United States Space Force | NASA Flight Operations/US Space Force Technical Exchange | 2/4/2021 | 2/4/2026 | Non-Reimbursable | \$420,643 | JSC | | Human Exploration and Operations | View Signed Agreement |

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| 651 | 32418 | UNIVERSITY OF TEXAS | Collaboration in Robotics Technology | 4/10/2020 | 3/10/2025 | Non-Reimbursable | \$130,206 | JSC | SAA-EA-20-32418 | Human Exploration and Operations | View Signed Agreement |
| 652 | 32319 | Adidas America, Inc | Annex One for Collaboration on Materials and Technologies | 6/16/2020 | 6/16/2025 | Non-Reimbursable | \$10,458 | JSC | SAA-OA-20-32319-01 | Human Exploration and Operations | View Signed Agreement |
| 653 | 32253 | TECHSHOT, INC | TECHSHOT ISS RESEARCH HARDWARE | 5/29/2020 | 5/29/2025 | Non-Reimbursable | \$24,483 | JSC | SAA-OZ-20-32253 | Human Exploration and Operations | View Signed Agreement |
| 654 | 32236 | Adidas America, Inc | COLLABORATION ON ADVANCED MATERIALS AND TECHNOLOGIES | 6/16/2020 | 6/16/2025 | Non-Reimbursable | \$0 | JSC | SAA-OA-20-32236 | Human Exploration and Operations | View Signed Agreement |
| 655 | 32208 | Baylor University | Baylor University and NASA Collaboration to Enhance Imagery from Space | 1/15/2021 | 1/15/2026 | Non-Reimbursable | \$60,708 | JSC | | Education and/or Public Engagement | View Signed Agreement |
| 656 | 32079 | WOUNDED WARRIOR PROJECT | HOUSTON SOLDIER RIDE | 3/31/2020 | 3/31/2025 | Non-Reimbursable | \$7,270 | JSC | SAA-JA-20-32079 | Education and/or Public Engagement | View Signed Agreement |
| 657 | 32042 | Baylor University | SPACE IMAGERY AND OUTREACH TECHNOLOGIES, SCIENCE AND ENGINEERING RESEARCH, AND STEM INITIATIVES. | 1/15/2021 | 1/15/2026 | Non-Reimbursable | \$0 | JSC | SAA-OA-20-32042 | Institutional and Mission Support | View Signed Agreement |
| 658 | | | NON-REIMBURSABLE SPACE ACT FOR RADIO CONTROLLED AIRPLANE OPERATIONS | 5/7/2020 | 5/7/2025 | Non-Reimbursable | \$6,061 | JSC | SAA-JA-20-32031 | Institutional and Mission Support | View Signed Agreement |
| 659 | | Collaborative Composites Solutions Corporation | Annex 2 - Development of Additive Manufacturing Techniques for Spacecraft Structures and Heat Shields | 3/26/2020 | 3/15/2024 | Non-Reimbursable | \$78,286 | JSC | SAA-EA-20-31994 | Human Exploration and Operations | View Signed Agreement |
| 660 | 31987 | | Development of Next Generation Ordnance Initiating System Architecture & Design | 7/20/2020 | 7/20/2025 | Non-Reimbursable | \$201,686 | JSC | SAA-EA-20-31987 | Human Exploration and Operations | View Signed Agreement |

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| 661 | 31729 | TECHNOLOGY COLLABORATION CENTER | Collaboration & Partnership Development Initiative | 8/11/2020 | 8/11/2025 | Non-Reimbursable | \$138,761 | JSC | SAA-XA-20-31729 | Technology Transfer | View Signed Agreement |
| 662 | 31717 | VIRGIN GALACTIC, LLC | Virgin Galactic Private Astronaut Mission | 5/15/2020 | 5/15/2025 | Non-Reimbursable | \$27,095 | JSC | SAA-OA-20-31717 | Human Exploration and Operations | View Signed Agreement |
| 663 | 31714 | TEXAS INSTRUMENTS, INC | Non-Reimbursable Space Act Umbrella Agreement for Strategic Alliance for STEM Engagement and Outreach Activities | 3/17/2020 | 3/17/2025 | Non-Reimbursable | \$0 | JSC | SAA-AD-20-31714 | Education and/or Public Engagement | View Signed Agreement |
| 664 | 31386 | UNIVERSITY OF ILLINOIS | Aero-capture and Atmospheric Entry, Descent, and Landing Guidance, Navigation, and Control (GN&C) | 2/28/2020 | 2/28/2025 | Non-Reimbursable | \$29,056 | JSC | SAA-EA-20-31386 | Human Exploration and Operations | View Signed Agreement |
| 665 | 31321 | The Procter & Gamble Company | Cleaning in Space | 8/18/2020 | 8/18/2025 | Non-Reimbursable | \$0 | JSC | SAA-EA-20-31321 | Human Exploration and Operations | View Signed Agreement |
| 666 | 31150 | UNIVERSITY OF TEXAS | Hypersonic Environment and Material Response Testing and Research | 3/10/2020 | 3/10/2025 | Non-Reimbursable | \$81,372 | JSC | SAA-EA-20-31150 | Human Exploration and Operations | View Signed Agreement |
| 667 | 31149 | UNIVERSITY OF TEXAS | Collaborative Research, Technology Transfer, Education and Outreach Activities | 3/10/2020 | 3/10/2025 | Non-Reimbursable | \$0 | JSC | SAA-EA-20-31149 | Human Exploration and Operations | View Signed Agreement |
| 668 | | DISTRICT | Annex 02 to Reimbursable Space Act Agreement for Collaboration for STEM Engagement, Education, and Community Outreach Activities | 11/15/2019 | 6/30/2024 | Reimbursable | \$1,634,566 | JSC | SAA-AD-18-27594-02 | Education and/or Public Engagement | View Signed Agreement |
| 669 | 31088 | | Programs to inspire the next generation of explorers through hands-on projects for high school students. | 8/12/2021 | 8/12/2026 | Non-Reimbursable | \$22,752 | JSC | SAA-OA-21-31088 | Human Exploration and Operations | View Signed Agreement |
| 670 | 31078 | | Programs to inspire the next generation of explorers through hands-on projects for high school students. | 8/12/2021 | 8/12/2026 | Non-Reimbursable | \$16,206 | JSC | SAA-OA-21-31078 | Human Exploration and Operations | View Signed Agreement |

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| 671 | 30784 | WILLIAM MARSH RICE UNIVERSITY | HUMANOID ROBOTICS AND RELATED TECHNOLOGIES | 3/10/2020 | 3/10/2025 | Reimbursable | \$8,440,428 | JSC | SAA-EA-20-30784 | Human Exploration and Operations, Education and/or Public Engagement | View Signed Agreement |
| 672 | 30783 | | COLLABORATIVE TECHNOLOGY DEVELOPMENT, INNOVATION, AND RESEARCH | 3/10/2020 | 3/10/2025 | Reimbursable | \$0 | JSC | SAA-EA-20-30783 | Human Exploration and Operations, Education and/or Public Engagement | View Signed Agreement |
| 673 | 30679 | INIANIORACKS IIIC | OPERATION OF THE NANORACKS SYSTEM ABOARD THE INTERNATIONAL SPACE STATION | 7/31/2019 | 7/31/2024 | Non-Reimbursable | \$24,597 | JSC | | Human Exploration and Operations | View Signed Agreement |
| 674 | 30388 | Katy Independent School District | MEMORANDUM OF AGREEMENT BETWEEN THE NATIONAL AERONAUTICS AND SPACE ADMINIMISTRATION LYNDON B. JOHNSON SPACE CENTER AND KATY INDEPENDENT SCHOOL DISTRICT FOR NASA CONTINUITY OF OPERATONS PROGRAM | 9/30/2019 | 9/30/2024 | Non-Reimbursable | \$0 | JSC | SAA-JA-20-30388 | Institutional and Mission Support | View Signed Agreement |
| 675 | 30119 | | Engineering Analysis and Testing for Advanced Technology Development | 1/27/2020 | 1/27/2025 | Reimbursable | \$0 | JSC | SAA-EA-19-30119 | Human Exploration and Operations | View Signed Agreement |
| 676 | 29865 | Inc. | NON-REIMBURSBLE SAA WITH MANNED SPACEFLIGHT EDUCATION FOUNDATION, INC. FOR COLLABORATIVE EDUCATION AND OUTREACH ACTIVITIES | | 7/15/2024 | Non-Reimbursable | \$3,095 | JSC | SAA-AD-19-29865 | Education and/or Public Engagement | View Signed Agreement |
| 677 | 29823 | | Engineering Analysis and Testing for Advanced Technology Development | 7/3/2019 | 7/3/2024 | Reimbursable | \$0 | JSC | SAA-EA-19-29823 | Human Exploration and Operations | View Signed Agreement |
| 678 | 29812 | RED.com, Inc. | RED Digital Cinema Core Camera for ISS | 1/23/2020 | 1/23/2025 | Non-Reimbursable | \$1,271,505 | JSC | 29812 | Education and/or Public Engagement | View Signed Agreement |
| 679 | 29741 | Ogemaw Heights High School | HIGH SCHOOL STUDENTS COLLABORATING WITH NASA TO PRODUCE HARDWARE OR OTHER USEFUL PRODUCTS UNDER THE HUNCH (HIGH SCHOOL STUDENTS UNITED WITH NASA TO CREATE HARDWARE) PROGRAM | 9/23/2021 | 9/22/2026 | Non-Reimbursable | \$6,516 | JSC | SAA-OA-21-29741 | Human Exploration and Operations | View Signed Agreement |
| 680 | 29738 | Delta Schoolcraft Intermediate School District | High School Students United with NASA to Create Hardware (HUNCH) | 9/24/2021 | 9/23/2026 | Non-Reimbursable | \$6,516 | JSC | SAA-OA-19-29738 | Human Exploration and Operations | View Signed Agreement |

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| 681 | 29511 | The Cannon | MARS SHOT ACCELERATION PROGRAM | 6/28/2022 | 6/28/2024 | Non-Reimbursable | \$18,882 | JSC | SAA-XT-19-29511 | Technology Transfer | View Signed Agreement |
| 682 | 29456 | Houston Exponential | Cooperative Community Outreach Activities | 6/6/2019 | 6/6/2024 | Non-Reimbursable | \$227,792 | JSC | SAA-XA-19-29456 | Technology Transfer | View Signed Agreement |
| 683 | | Collaborative Composites Solutions Corporation | Collaboration for Advanced Manufacturing Techniques | 3/15/2019 | 3/15/2024 | Non-Reimbursable | \$0 | JSC | SAA-EA-19-29452 | Human Exploration and Operations | View Signed Agreement |
| 684 | 29366 | Axiom Space, Inc. | Flight Operations Directorate Axiom Training | 9/23/2019 | 8/27/2024 | Reimbursable | \$3,493,353 | JSC | SAA-OA-19-29366-01 | Space Technology | View Signed Agreement |
| 685 | 29365 | Axiom Space, Inc. | Low-Earth Orbit Commercial Development Utilizing the ISS | 8/27/2019 | 8/27/2024 | Reimbursable | \$0 | JSC | SAA-19-OA-29365 | Space Technology | View Signed Agreement |
| 686 | 29343 | BLUE ORIGIN, LLC | Engineering Analysis and Testing | 2/8/2020 | 2/8/2025 | Reimbursable | \$0 | JSC | SAA-EA-20-29343 | Human Exploration and Operations | View Signed Agreement |
| 687 | 28973 | SGT, LLC | NASA JSC/SGT Vendor Partner Agreement | 9/10/2019 | 9/10/2024 | Reimbursable | \$84,607 | JSC | SAA-CA-19-28973 | Human Exploration and Operations | View Signed Agreement |
| 688 | 28812 | UNIVERSITY OF HOUSTON | SAA with University of Houston for Collaborative Research, Technology Transfer, Education and Outreach Activities | 11/5/2018 | 11/5/2023 | Non-Reimbursable | \$0 | JSC | SAA-CA-19-28812 | Human Exploration and Operations | View Signed Agreement |
| 689 | 28679 | | High School Students United with NASA to Create Hardware (HUNCH) Program | 10/3/2018 | 10/2/2023 | Non-Reimbursable | \$14,111 | JSC | SAA-OZ-18-28679 | Human Exploration and Operations | View Signed Agreement |
| 690 | 28672 | LOCKHEED MARTIN | INTEGRATION AND OPERATIONS SUPPORT RELATED TO THE EM-1 CREW INTERFACE TECHNOLOGY PAYLOAD | 12/17/2018 | 12/17/2023 | Reimbursable | \$3,122,796 | JSC | SAA-GA-18-28672 | Human Exploration and Operations, Education and/or Public Engagement | View Signed Agreement |

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| 691 | 28527 | N-SCIENCE, INC | Asteroid Exploration Mission Concept Development | 8/20/2019 | 8/20/2025 | Non-Reimbursable | \$12,395 | JSC | SAA-XA-19-28527 | Human Exploration and Operations, Science | View Signed Agreement |
| 692 | 28383 | Ross Aviation Operations LLC | A/M32A-60 "Dash 60" Jet Starter Loan to Ross Aviation | 10/3/2018 | 10/2/2023 | Non-Reimbursable | \$5,950 | JSC | SAA-CA-18 28383 | Human Exploration and Operations | View Signed Agreement |
| 693 | 28378 | | SAFETY, RELIABILITY, AND ENGINEERING ANALYSES OF THE BIVACOR TOTAL ARTIFICIAL HEART | 10/1/2019 | 10/1/2024 | Reimbursable | \$0 | JSC | SAA-NA-20-28378 | Institutional and Mission Support | View Signed Agreement |
| 694 | 28358 | New York Space Alliance | The Fostering of Space Entrepreneurship | 10/5/2018 | 10/5/2023 | Non-Reimbursable | \$0 | JSC | SAA-XB-18-28358 | Technology Transfer | View Signed Agreement |
| 695 | 28182 | SOUTHWEST RESEARCH INSTITUTE | Commercialization of NASA's NASGRO Software | 11/21/2018 | 11/21/2023 | Non-Reimbursable | \$196,654 | JSC | SAA-EA-18-28182 | Space Technology | View Signed Agreement |
| 696 | 27894 | Space Family Education, Inc | Aaron Cohen Child Care Center | 6/27/2019 | 6/27/2024 | Non-Reimbursable | \$2,034,364 | JSC | SAA-XA-18-27894 | Institutional and Mission Support | View Signed Agreement |
| 697 | 27634 | | Umbrella for Collaborative Research, Technology Transfer, and Education Activities | 8/23/2019 | 8/23/2024 | Non-Reimbursable | \$0 | JSC | SAA-XA-19-27634 | Institutional and Mission Support | View Signed Agreement |
| 698 | | DISTRICT | Reimbursable Space Act Umbrella Agreement for the Collaboration for STEM Engagement, Education, and Community Outreach Activities | 8/28/2018 | 6/30/2024 | Reimbursable | \$0 | JSC | SAA-AD-18-27594 | Education and/or Public Engagement | View Signed Agreement |
| 699 | | Raytheon Intelligence, Information and Services | Annex 5 Authorizing Clean Room, Animation, Manufacturing, and Other General Commercialization Activities Under the Neutral Buoyancy Laboratory (NBL) Operations Contract (NOC) | 10/18/2017 | 9/30/2024 | Reimbursable | \$250,000 | JSC | SAA-CA-17-26023-5 | Institutional and Mission Support | View Signed Agreement |
| 700 | | Raytheon Intelligence, Information and Services | Annex 4 Authorizing Support for Department of Defense Diving and Other Commercialization Activities Under the Neutral Buoyancy Laboratory (NBL) Operations Contract (NOC) | 9/27/2017 | 9/30/2024 | Reimbursable | \$750,000 | JSC | SAA-CA-17-26021-04 | Institutional and Mission Support | View Signed Agreement |

| ROW NO | PAM ID NO. | PARTNER NAME | TITLE/PURPOSE | SIGNATURE DATE | EXPIRATION DATE | TYPE OF AGREEMENT | TOTAL ESTIMATED VALUE | CENTER | CENTER TRACKING NUMBER (IF ANY) | EXPECTED AGENCY BENEFIT(S) | LINK TO SIGNED AGREEMENT |
|--------|------------|---|--|----------------|-----------------|-------------------|--------------------------|--------|------------------------------------|-----------------------------------|-----------------------------|
| 701 | | Raytheon Intelligence, Information and Services | Annex 3 Authorizing Remotely Operated Vehicles (ROVs) and Autonomous Underwater Vehicles (AUVs) Commercialization Activities Under the Neutral Buoyancy Laboratory (NBL) Operations Contract (NOC) | 9/27/2017 | 9/30/2024 | Reimbursable | \$2,000,000 | JSC | SAA-CA-17-26017-03 | Institutional and Mission Support | View Signed Agreement |
| 702 | | Raytheon Intelligence, Information and Services | Annex 2 Authorizing Non-Destructive Testing Commercialization Activities Under the Neutral Buoyancy Laboratory (NBL) Operations Contract (NOC) | 9/27/2017 | 9/30/2024 | Reimbursable | \$15,000,000 | JSC | SAA-CA-17-26016-02 | Institutional and Mission Support | View Signed Agreement |
| 703 | 1/00111/ | Raytheon Intelligence, Information and Services | Annex 1 Authorizing Safety, Survival, Emergency Response, and Leadership Training as Commercialization Activities Under the Neutral Buoyancy Laboratory (NBL) Operations Contract (NOC) | 9/27/2017 | 9/30/2024 | Reimbursable | \$4,900,000 | JSC | SAA-CA-17-26007-01 | Institutional and Mission Support | View Signed Agreement |
| 704 | 26006 | Raytheon Intelligence, Information and Services | Umbrella Agreement Authorizing Commercialization Activities Under the Neutral Buoyancy Laboratory (NBL) Operations Contract (NOC) Contract | 9/27/2017 | 9/30/2024 | Reimbursable | \$0 | JSC | SAA-CA-17-26006 | Institutional and Mission Support | View Signed Agreement |
| 705 | 39643 | Space Exploration Technologies Corporation | KCA-4722-17 Rev Basic, Fully Reimbursable Space Act Umbrella Agreement between NASA and Space Exploration Technologies Corporation for use of Kennedy Space Center Capabilities | 9/28/2023 | 12/31/2025 | Reimbursable | \$246,749,951 | KSC | KCA-4722-17 Rev Basic | Human Exploration and Operations | View Signed Agreement |
| 706 | 39639 | THE BOEING COMPANY | KCA-4735-6, Rev Basic Annex 6 Reimbursable Umbrella SAA between the NASA KSC and The Boeing Company for Use of Center Capabilities | 9/28/2023 | 9/22/2028 | Reimbursable | \$9,284 | KSC | KCA-4735-6 Rev Basic | Institutional and Mission Support | View Signed Agreement |
| 707 | 39636 | THE BOEING COMPANY | KCA-4735-5, Rev Basic Annex 5 Reimbursable Umbrella SAA between the NASA KSC and The Boeing Company for Use of Center Capabilities | 9/27/2023 | 9/22/2028 | Reimbursable | \$3,639,528 | KSC | KCA-4735-5 Rev Basic | Institutional and Mission Support | View Signed Agreement |
| 708 | 39633 | THE BOEING COMPANY | KCA-4735-4, Rev Basic Annex 4 Reimbursable Umbrella SAA between the NASA KSC and The Boeing Company for Use of Center Capabilities | 9/27/2023 | 9/22/2028 | Reimbursable | \$30,046 | KSC | KCA-4735-4 Rev Basic | Institutional and Mission Support | View Signed Agreement |
| 709 | 39632 | | KCA-4735-3, Rev Basic Annex 3 Reimbursable Umbrella SAA between the NASA KSC and The Boeing Company for Use of Center Capabilities | 9/27/2023 | 9/22/2028 | Reimbursable | \$44,882 | KSC | KCA-4735-3 Rev Basic | Institutional and Mission Support | View Signed Agreement |
| 710 | 39631 | THE BOEING COMPANY | KCA-4735-2, Rev Basic Annex 2 Reimbursable Umbrella SAA between the NASA KSC and The Boeing Company for Use of Center Capabilities | 9/27/2023 | 9/22/2028 | Reimbursable | \$56,155 | KSC | KCA-4735-2 Rev Basic | Institutional and Mission Support | View Signed Agreement |

| ROW NO | PAM ID NO. | PARTNER NAME | TITLE/PURPOSE | SIGNATURE DATE | EXPIRATION DATE | TYPE OF AGREEMENT | TOTAL ESTIMATED VALUE | CENTER | CENTER TRACKING NUMBER (IF ANY) | EXPECTED AGENCY BENEFIT(S) | LINK TO SIGNED AGREEMENT |
|--------|------------|---|--|----------------|-----------------|-------------------|--------------------------|--------|------------------------------------|------------------------------------|-----------------------------|
| 711 | 39471 | Engineering Research and Consulting, Inc. | KCA-4740-6, Rev Basic Annex 6 Under Reimbursable Space Act Agreement (RSAA) Umbrella with Engineering Research and Consulting, Inc. (ERC) for Contractor 3rd Party Work (C3PW) | 9/6/2023 | 12/31/2023 | Reimbursable | \$1,204 | KSC | KCA-4740-6 Rev Basic | Institutional and Mission Support | View Signed Agreement |
| 712 | 39387 | Engineering Research and Consulting Inc | KCA-4740-5 Rev. Basic, Annex 5 to KCA-4740, Rev Basic Umbrella Reimbursable Space Act Agreement (RSAA) with Engineering Research and Consulting, Inc. (ERC) for Contractor 3rd Party Work (C3PW) | 9/6/2023 | 9/30/2024 | Reimbursable | \$298 | KSC | KCA-4740-5 Rev Basic | Institutional and Mission Support | View Signed Agreement |
| 713 | 39272 | Bolotivity Change Inc | KCA-4678-8 Rev. Basic, Annex 8 under Reimbursable Space Act Agreement (RSAA) Umbrella Between Relativity Space, Inc. and NASA Kennedy Space Center for Use of Center Capabilities | 8/10/2023 | 9/30/2024 | Reimbursable | \$87,501 | KSC | KCA-4678-8 Rev Basic | Human Exploration and Operations | View Signed Agreement |
| 714 | 39138 | SPACE FLORIDA | KCA-4723-7, Rev Basic for Reimbursable Umbrella SAA between the NASA KSC and Space Florida for Use of Center Capabilities | 7/10/2023 | 6/30/2028 | Reimbursable | \$61,885 | KSC | KCA-4723-7 Rev Basic | Institutional and Mission Support | View Signed Agreement |
| 715 | 39137 | | KCA-4723-6, Rev Basic for Reimbursable Umbrella SAA between the NASA KSC and Space Florida for Use of Center Capabilities | 7/10/2023 | 6/30/2028 | Reimbursable | \$241,449 | KSC | KCA-4723-6 Rev Basic | Institutional and Mission Support | View Signed Agreement |
| 716 | 39135 | | KCA-4723-5, Rev Basic for Reimbursable Umbrella SAA between the NASA KSC and Space Florida for Use of Center Capabilities | 7/10/2023 | 6/30/2028 | Reimbursable | \$388,748 | KSC | KCA-4723-5 Rev Basic | Institutional and Mission Support | View Signed Agreement |
| 717 | 39134 | | KCA-4723-4, Rev Basic for Reimbursable Umbrella SAA between the NASA KSC and Space Florida for Use of Center Capabilities | 7/13/2023 | 6/30/2028 | Reimbursable | \$566,331 | KSC | KCA-4723-4 Rev Basic | Institutional and Mission Support | View Signed Agreement |
| 718 | 39133 | | KCA-4723-3, Rev Basic for Reimbursable Umbrella SAA between the NASA KSC and Space Florida for Use of Center Capabilities | 7/10/2023 | 6/30/2028 | Reimbursable | \$112,083 | KSC | KCA-4723-3 Rev Basic | Institutional and Mission Support | View Signed Agreement |
| 719 | 39127 | SPACE FLORIDA | KCA-4723-2, Rev Basic for Reimbursable Umbrella SAA between the NASA KSC and Space Florida for Use of Center Capabilities | 7/10/2023 | 6/30/2028 | Reimbursable | \$11,872,768 | KSC | KCA-4723-2 Rev Basic | Institutional and Mission Support | View Signed Agreement |
| 720 | 39083 | POLK STATE COLLEGE | KCA-4750 Rev Basic, Non-Reimbursable Space Act Agreements for High School Students United with NASA to Create Hardware (HUNCH) Program Participation with Polk State College | 9/29/2023 | 9/28/2028 | Non-Reimbursable | \$183,198 | KSC | KCA-4750 Rev Basic | Education and/or Public Engagement | View Signed Agreement |

| ROW NO | PAM ID NO. | PARTNER NAME | TITLE/PURPOSE | SIGNATURE DATE | EXPIRATION DATE | TYPE OF AGREEMENT | TOTAL ESTIMATED VALUE | CENTER | CENTER TRACKING NUMBER (IF ANY) | EXPECTED AGENCY BENEFIT(S) | LINK TO SIGNED AGREEMENT |
|--------|------------|--|---|----------------|-----------------|-------------------|-----------------------|--------|------------------------------------|-----------------------------------|-----------------------------|
| 721 | 39060 | Engineering Research and Consulting, Inc. | KCA-4740-4 Rev. Basic, Annex 4 to KCA-4740, Rev Basic Umbrella Reimbursable Space Act Agreement (RSAA) with Engineering Research and Consulting, Inc. (ERC) for Contractor 3rd Party Work (C3PW) | 8/30/2023 | 12/31/2023 | Reimbursable | \$3,506 | KSC | KCA-4740-4 Rev Basic | Institutional and Mission Support | View Signed Agreement |
| 722 | 38992 | WINSTON-SALEM STATE UNIVERSITY | KCA-4754-2, Rev. Basic Annex 2 to Nonreimbursable Umbrella Space Act Agreement with Winston-Salem State University (WSSU) for Databasing Activities | 9/15/2023 | 9/15/2028 | Non-Reimbursable | \$66,295 | KSC | KCA-4754-2 Rev. Basic | Science | View Signed Agreement |
| 723 | 38867 | WINSTON-SALEM STATE UNIVERSITY | KCA-4754-1, Rev. Basic Annex 1 to Nonreimbursable Umbrella Space Act Agreement with Winston-Salem State University for Microbiomes and Regolith Research Activities | 9/15/2023 | 9/15/2028 | Non-Reimbursable | \$66,295 | KSC | KCA-4754-1 Rev. Basic | Science | View Signed Agreement |
| 724 | 38866 | WINSTON-SALEM STATE UNIVERSITY | KCA-4754 Rev. Basic Nonreimbursable Umbrella Space Act Agreement with Winston-Salem State University (WSSU) for Space Crop Production Collaborative Activities | 9/15/2023 | 9/15/2028 | Non-Reimbursable | \$0 | KSC | KCA-4754 Rev. Basic | Science | View Signed Agreement |
| 725 | 38830 | Space Exploration Technologies Corporation | KCA-4722-16 Rev Basic, Annex 16 to Fully Reimbursable Space Act Umbrella Agreement between NASA and Space Exploration Technologies Corporation for use of Kennedy Space Center Capabilities | 4/28/2023 | 9/30/2023 | Reimbursable | \$40,183,745 | KSC | KCA-4722-16 Rev Basic | Human Exploration and Operations | View Signed Agreement |
| 726 | 38794 | Space Exploration Technologies Corporation | KCA-4722-15 Rev Basic, Annex 15 to Fully Reimbursable Space Act Umbrella Agreement between NASA and Space Exploration Technologies Corporation for use of Kennedy Space Center Capabilities | 5/15/2023 | 11/15/2027 | Reimbursable | \$49,916 | KSC | KCA-4722-15 Rev Basic | Human Exploration and Operations | View Signed Agreement |
| 727 | 38789 | PAE-SGT Partners LLC | KCA-4608-3 Rev Basic, Annex 3 to Fully Reimbursable Umbrella SAA between NASA and PAE-SGT Partners LLC for C3PW | 5/16/2023 | 9/30/2024 | Reimbursable | \$19,310 | KSC | KCA-4608-3 Rev Basic | Institutional and Mission Support | View Signed Agreement |
| 728 | 38668 | Space Exploration Technologies Corporation | KCA-4722-10 Rev Basic, Annex 10 under Fully Reimbursable Space Act Umbrella Agreement between NASA and Space Exploration Technologies Corporation for use of Kennedy Space Center Capabilities | 4/6/2023 | 11/15/2027 | Reimbursable | \$95,833 | KSC | KCA-4722-10 Rev. Basic | Human Exploration and Operations | View Signed Agreement |
| 729 | 38660 | Fraincering Becomes and Consulting Inc | KCA-4740-2, Rev Basic Annex 2 Under Reimbursable Space Act Agreement (RSAA) Umbrella with Engineering Research and Consulting, Inc. (ERC) for Contractor 3rd Party Work (C3PW) | | 4/30/2024 | Reimbursable | \$675 | KSC | KCA-4740-2 Rev Basic | Institutional and Mission Support | View Signed Agreement |
| 730 | 38560 | Space Exploration Technologies Corporation | KCA-4722-13 Rev Basic, Fully Reimbursable Space Act Umbrella Agreement between NASA and Space Exploration Technologies Corporation for use of Kennedy Space Center Capabilities | 7/18/2023 | 11/15/2027 | Reimbursable | \$137,762 | KSC | KCA-4722-13 Rev Basic | Human Exploration and Operations | View Signed Agreement |

| ROW NO | PAM ID NO. | PARTNER NAME | TITLE/PURPOSE | SIGNATURE DATE | EXPIRATION DATE | TYPE OF AGREEMENT | TOTAL ESTIMATED VALUE | CENTER | CENTER TRACKING NUMBER (IF ANY) | EXPECTED AGENCY BENEFIT(S) | LINK TO SIGNED AGREEMENT |
|--------|------------|---|---|----------------|-----------------|-------------------|--------------------------|--------|------------------------------------|-----------------------------------|-----------------------------|
| 731 | 38549 | Engineering Research and Consulting, Inc. | KCA-4740-1, Rev Basic Annex 1 Under Reimbursable Space Act Agreement (RSAA) Umbrella with Engineering Research and Consulting, Inc. (ERC) for Contractor 3rd Party Work (C3PW) | 4/7/2023 | 4/30/2024 | Reimbursable | \$5,121 | KSC | KCA-4740-1 Rev Basic | Institutional and Mission Support | View Signed Agreement |
| 732 | 38548 | Engineering Research and Consulting, Inc. | KCA-4740, Rev Basic Umbrella Reimbursable Space Act Agreement (RSAA) with Engineering Research and Consulting, Inc. (ERC) for Contractor 3rd Party Work (C3PW) | | 9/30/2024 | Reimbursable | \$0 | KSC | KCA-4740 Rev Basic | Institutional and Mission Support | View Signed Agreement |
| 733 | 38366 | AIRBUS U.S. SPACE AND DEFENSE, INC | KCA-4731-1 Revision Basic, Annex 1 under Reimbursable Umbrella SAA between the National Aeronautics and Space Administration John F. Kennedy Space Center and Airbus U.S. Space and Defense, Inc. | 5/5/2023 | 5/4/2028 | Reimbursable | \$226,491 | KSC | KCA-4731-1 Rev Basic | Institutional and Mission Support | View Signed Agreement |
| 734 | 38365 | AIRBUS U.S. SPACE AND DEFENSE, INC | KCA-4731 Revision Basic, for Reimbursable Umbrella SAA between the National Aeronautics and Space Administration John F. Kennedy Space Center and Airbus U.S. Space and Defense, Inc. | 5/5/2023 | 5/4/2028 | Reimbursable | \$0 | KSC | KCA-4731 Rev Basic | Institutional and Mission Support | View Signed Agreement |
| 735 | 38273 | | KCA-4735-1, Rev Basic Annex 1 for Reimbursable Umbrella SAA between the NASA KSC and The Boeing Company for Use of Center Capabilities | 9/22/2023 | 9/22/2028 | Reimbursable | \$1,201,720 | KSC | KCA-4735-1 Rev. Basic | Institutional and Mission Support | View Signed Agreement |
| 736 | 38272 | THE BOEING COMPANY | KCA-4735, Rev. Basic Reimbursable Umbrella SAA between the NASA KSC and The Boeing Company for Use of Center Capabilities | 9/22/2023 | 9/22/2028 | Reimbursable | \$0 | KSC | KCA-4735 Rev. Basic | Institutional and Mission Support | View Signed Agreement |
| 737 | 38267 | Firefly Aerospace Inc. | KCA-4671-2, Rev. Basic Annex 2 under Fully Reimbursable Umbrella SAA Between NASA KSC and Firefly Aerospace Inc. for Use of Center Capabilities | 4/21/2023 | 3/1/2026 | Reimbursable | \$44,263 | KSC | KCA-4671-2 Rev Basic | Human Exploration and Operations | View Signed Agreement |
| 738 | 38156 | | KCA-4726-9 Rev Basic Annex 9 for Reimbursable Umbrella SAA between the NASA KSC and United Launch Alliance, LLC for Use of Center Capabilities | 2/23/2023 | 1/25/2028 | Reimbursable | \$213,929 | KSC | KCA-4726-9 Rev Basic | Human Exploration and Operations | View Signed Agreement |
| 739 | 38155 | UNITED LAUNCH ALLIANCE, LLC | KCA-4726-8 Rev Basic Annex 8 for Reimbursable Umbrella SAA between the NASA KSC and United Launch Alliance, LLC for Use of Center Capabilities | 2/23/2023 | 1/25/2028 | Reimbursable | \$84,877 | KSC | KCA-4726-8 Rev Basic | Human Exploration and Operations | View Signed Agreement |
| 740 | 38154 | UNITED LAUNCH ALLIANCE, LLC | KCA-4726-7 Rev Basic Annex 7 for Reimbursable Umbrella SAA between the NASA KSC and United Launch Alliance, LLC for Use of Center Capabilities | 2/16/2023 | 1/25/2028 | Reimbursable | \$2,081,093 | KSC | KCA-4726-7 Rev Basic | Human Exploration and Operations | View Signed Agreement |

| ROW NO | . PAM ID NO. | PARTNER NAME | TITLE/PURPOSE | SIGNATURE DATE | EXPIRATION DATE | TYPE OF AGREEMENT | . TOTAL ESTIMATED VALUE | CENTER | CENTER TRACKING NUMBER (IF ANY) | EXPECTED AGENCY BENEFIT(S) | LINK TO SIGNED AGREEMENT |
|--------|--------------|--|--|----------------|-----------------|-------------------|----------------------------|--------|------------------------------------|----------------------------------|-----------------------------|
| 741 | 38153 | UNITED LAUNCH ALLIANCE, LLC | KCA-4726-6 Rev Basic Annex 6 for Reimbursable Umbrella SAA between the NASA KSC and United Launch Alliance, LLC for Use of Center Capabilities | 2/16/2023 | 1/25/2028 | Reimbursable | \$75,778 | KSC | KCA-4726-6 Rev Basic | Human Exploration and Operations | View Signed Agreement |
| 742 | 38152 | UNITED LAUNCH ALLIANCE, LLC | KCA-4726-5 Rev Basic Annex 5 for Reimbursable Umbrella SAA between the NASA KSC and United Launch Alliance, LLC for Use of Center Capabilities | 2/16/2023 | 1/25/2028 | Reimbursable | \$347,681 | KSC | KCA-4726-5 Rev Basic | Human Exploration and Operations | View Signed Agreement |
| 743 | 38151 | UNITED LAUNCH ALLIANCE, LLC | KCA-4726-4 Rev Basic Annex 4 for Reimbursable Umbrella SAA between the NASA KSC and United Launch Alliance, LLC for Use of Center Capabilities | 2/13/2023 | 1/25/2028 | Reimbursable | \$17,204 | KSC | KCA-4726-4 Rev Basic | Human Exploration and Operations | View Signed Agreement |
| 744 | 38150 | UNITED LAUNCH ALLIANCE, LLC | KCA-4726-3 Rev Basic Annex 3 for Reimbursable Umbrella SAA between the NASA KSC and United Launch Alliance, LLC for Use of Center Capabilities | 2/13/2023 | 1/25/2028 | Reimbursable | \$399,137 | KSC | KCA-4726-3 Rev Basic | Human Exploration and Operations | View Signed Agreement |
| 745 | 38149 | | KCA-4726-2 Rev Basic Annex 2 for Reimbursable Umbrella SAA between the NASA KSC and United Launch Alliance, LLC for Use of Center Capabilities | 2/21/2023 | 1/25/2028 | Reimbursable | \$314,684,615 | KSC | KCA-4726-2 Rev Basic | Human Exploration and Operations | View Signed Agreement |
| 746 | 37908 | United States Department of the Air Force | KCA-4724, Rev Basic for Nonreimbursable IAA between the NASA KSC and AFRL for Supporting the Air Force Development of Plasma Waste Handling Systems for Forward Operating Bases | 3/22/2023 | 3/21/2026 | Non-Reimbursable | \$9,140 | KSC | KCA-4724 Rev Basic | Science, Technology Transfer | View Signed Agreement |
| 747 | 37885 | Space Exploration Technologies Corporation | KCA-4722-12 Rev Basic, Annex 12 to Fully Reimbursable Space Act Umbrella Agreement between NASA and Space Exploration Technologies Corporation for use of Kennedy Space Center Capabilities | 12/8/2022 | 3/31/2024 | Reimbursable | \$16,942,902 | KSC | KCA-4722-12 Rev Basic | Human Exploration and Operations | View Signed Agreement |
| 748 | 37884 | Space Exploration Technologies Corporation | KCA-4722-14 Rev Basic, Annex 14 to Fully Reimbursable Space Act Umbrella Agreement between NASA and Space Exploration Technologies Corporation for use of Kennedy Space Center Capabilities | 12/1/2022 | 11/15/2027 | Reimbursable | \$3,824 | KSC | KCA-4722-14 Rev Basic | Human Exploration and Operations | View Signed Agreement |
| 749 | 37883 | Space Exploration Technologies Corporation | KCA-4722-9 Rev Basic, Annex 9 to Fully Reimbursable Space Act Umbrella Agreement between NASA and Space Exploration Technologies Corporation for use of Kennedy Space Center Capabilities | 12/1/2022 | 11/15/2027 | Reimbursable | \$745,711 | KSC | KCA-4722-9 Rev Basic | Human Exploration and Operations | View Signed Agreement |
| 750 | 37882 | Space Exploration Technologies Corporation | KCA-4722-11 Rev Basic, Annex 11 to Fully Reimbursable Space Act Umbrella Agreement between NASA and Space Exploration Technologies Corporation for use of Kennedy Space Center Capabilities | 12/1/2022 | 11/15/2027 | Reimbursable | \$35,125 | KSC | KCA-4722-11 Rev Basic | Human Exploration and Operations | View Signed Agreement |

| ROW NO | D. PAM ID NO. | PARTNER NAME | TITLE/PURPOSE | SIGNATURE DATE | EXPIRATION DATE | TYPE OF AGREEMENT | TOTAL ESTIMATED VALUE | CENTER | CENTER TRACKING NUMBER (IF ANY) | EXPECTED AGENCY BENEFIT(S) | LINK TO SIGNED AGREEMENT |
|--------|---------------|--|--|----------------|-----------------|-------------------|--------------------------|--------|------------------------------------|------------------------------------|-----------------------------|
| 751 | 37881 | Space Exploration Technologies Corporation | KCA-4722-7 Rev Basic, Annex 7 to Fully Reimbursable Space Act Umbrella Agreement between NASA and Space Exploration Technologies Corporation for use of Kennedy Space Center Capabilities | 12/1/2022 | 11/15/2027 | Reimbursable | \$592,427 | KSC | KCA-4722-7 Rev Basic | Human Exploration and Operations | View Signed Agreement |
| 752 | 37880 | Space Exploration Technologies Corporation | KCA-4722-5 Rev Basic, Annex 5 to Fully Reimbursable Space Act Umbrella Agreement between NASA and Space Exploration Technologies Corporation for use of Kennedy Space Center Capabilities | 12/8/2022 | 11/15/2027 | Reimbursable | \$41,172,805 | KSC | KCA-4722-5 Rev Basic | Human Exploration and Operations | View Signed Agreement |
| 753 | 37879 | Space Exploration Technologies Corporation | KCA-4722-4 Rev Basic, Annex 4 to Fully Reimbursable Space Act Umbrella Agreement between NASA and Space Exploration Technologies Corporation for use of Kennedy Space Center Capabilities | 12/8/2022 | 11/15/2027 | Reimbursable | \$4,396,660 | KSC | KCA-4722-4 Rev Basic | Human Exploration and Operations | View Signed Agreement |
| 754 | 37875 | Space Exploration Technologies Corporation | KCA-4722-8 Rev Basic, Annex 8 to Fully Reimbursable Space Act Umbrella Agreement between NASA and Space Exploration Technologies Corporation for use of Kennedy Space Center Capabilities | 12/1/2022 | 11/15/2027 | Reimbursable | \$461,627 | KSC | KCA-4722-8 Rev Basic | Institutional and Mission Support | View Signed Agreement |
| 755 | 37874 | Space Exploration Technologies Corporation | KCA-4722-6 Rev Basic, Annex 6 to Fully Reimbursable Space Act Umbrella Agreement between NASA and Space Exploration Technologies Corporation for use of Kennedy Space Center Capabilities | 12/1/2022 | 11/15/2027 | Reimbursable | \$70,430 | KSC | KCA-4722-6 Rev Basic | Institutional and Mission Support | View Signed Agreement |
| 756 | 37873 | Space Exploration Technologies Corporation | KCA-4722-3 Rev Basic, Annex 3 to Fully Reimbursable Space Act Umbrella Agreement between NASA and Space Exploration Technologies Corporation for use of Kennedy Space Center Capabilities | 12/1/2022 | 11/15/2027 | Reimbursable | \$91,652 | KSC | KCA-4722-3 Rev Basic | Institutional and Mission Support | View Signed Agreement |
| 757 | 37872 | Space Exploration Technologies Corporation | KCA-4722-2 Rev Basic, Annex 2 to Fully Reimbursable Space Act Umbrella Agreement between NASA and Space Exploration Technologies Corporation for use of Kennedy Space Center Capabilities | 12/1/2022 | 11/15/2027 | Reimbursable | \$674,543 | KSC | KCA-4722-2 Rev Basic | Institutional and Mission Support | View Signed Agreement |
| 758 | 37821 | RELATIVITY SPACE, INC | KCA-4678-7 Rev Basic, Annex to Umbrella Agreement Between KSC and Relativity Space, Inc. for Use of Center Capabilities | 12/8/2022 | 9/30/2024 | Reimbursable | \$11,214 | KSC | KCA-4678-7 Rev Basic | Human Exploration and Operations | View Signed Agreement |
| 759 | 37802 | Rocket Crafters, Inc | KCA-4700-2 Rev Basic, Annex 2 to Umbrella Agreement Between KSC and Rocket Crafters for Use of Center Capabilities | 12/13/2022 | 12/31/2023 | Reimbursable | \$7,926 | KSC | KCA-4700-2 Rev Basic | Human Exploration and Operations | View Signed Agreement |
| 760 | 37748 | Astronauts Memorial Foundation | KCA-4725, Rev Basic Standalone NRSAA between NASA KSC and the Astronauts Memorial Foundation, Inc. | 8/31/2023 | 8/30/2028 | Non-Reimbursable | \$674,790 | KSC | KCA-4725 Rev Basic | Education and/or Public Engagement | View Signed Agreement |

| ROW NO | PAM ID NO. | PARTNER NAME | TITLE/PURPOSE | SIGNATURE DATE | EXPIRATION DATE | TYPE OF AGREEMENT | TOTAL ESTIMATED VALUE | CENTER | CENTER TRACKING NUMBER (IF ANY) | EXPECTED AGENCY BENEFIT(S) | LINK TO SIGNED AGREEMENT |
|--------|------------|-----------------------------|--|----------------|-----------------|-------------------|--------------------------|--------|------------------------------------|--|-----------------------------|
| 761 | 37729 | UNITED LAUNCH ALLIANCE, LLC | KCA-4726-1, Rev Basic Annex 1 for Reimbursable Umbrella SAA between the NASA KSC and United Launch Alliance, LLC for Use of Center Capabilities | 1/26/2023 | 1/25/2028 | Reimbursable | \$1,091,449 | KSC | KCA-4726-1 Rev Basic | Institutional and Mission Support | View Signed Agreement |
| 762 | 37728 | UNITED LAUNCH ALLIANCE, LLC | KCA-4726, Rev Basic for Reimbursable Umbrella SAA between the NASA KSC and United Launch Alliance, LLC for Use of Center Capabilities | 1/26/2023 | 1/25/2028 | Reimbursable | \$0 | KSC | KCA-4726 Rev Basic | Institutional and Mission Support | View Signed Agreement |
| 763 | 37721 | UNITED LAUNCH ALLIANCE, LLC | KCA-4733, Rev. Basic Fully Reimbursable Space Act Agreement between the National Aeronautics and Space Administration John F. Kennedy Space Center and United Launch Alliance, LLC for Solar White Development for Second-Stage Cryogenic Tanks | 6/22/2023 | 6/22/2024 | Reimbursable | \$838,215 | KSC | KCA-4733 Rev. Basic | Space Technology, Institutional and Mission Support | View Signed Agreement |
| 764 | 37681 | Bolotivity Change Inc | KCA-4678-6 Rev Basic, Annex 6 to Reimbursable Space Act Agreement (RSAA) Umbrella Between Relativity Space, Inc. and NASA Kennedy Space Center for Use of Center Capabilities | 12/5/2022 | 9/30/2024 | Reimbursable | \$90,363 | KSC | KCA-4678-6 Rev Basic | Human Exploration and Operations | View Signed Agreement |
| 765 | 37598 | Blue Origin Florida, LLC | KCA-4555-19 Rev Basic, Annex 19 to Fully Reimbursable Umbrella SAA Between NASA KSC and Blue Origin Florida, LLC for Use of Center Capabilities | 11/14/2022 | 12/3/2023 | Reimbursable | \$21,891 | KSC | KCA-4555-19 Rev Basic | Human Exploration and Operations | View Signed Agreement |
| 766 | 37504 | | KCA 4715-1 Rev Basic, Annex 1 for Reimbursable SAA between NASA KSC and University of Dayton | 12/15/2022 | 12/14/2027 | Reimbursable | \$106,515 | KSC | KCA 4715-1 Rev Basic | Institutional and Mission Support | View Signed Agreement |
| 767 | 37503 | | KCA-4715 Rev Basic, Reimbursable Umbrella SAA between KSC and University of Dayton for Corrosion Testing | 12/15/2022 | 12/14/2027 | Reimbursable | \$0 | KSC | KCA-4715 Rev Basic | Institutional and Mission Support | View Signed Agreement |
| 768 | 37499 | | KCA-4648-2 Rev. Basic, of Reimbursable Space Act Umbrella Agreement Between The National Aeronautics and Space Administration (NASA) John F. Kennedy Space Center (KSC) and The University of Central Florida (UCF) Central Florida Board of Trustees for Use of Center Capabilities | 10/6/2022 | 9/30/2023 | Reimbursable | \$34,747 | KSC | KCA-4648-2 Rev Basic | Human Exploration and Operations | View Signed Agreement |
| 769 | | CBOLID | KCA-4660-24 Rev. Basic, Annex 24 Fully Reimbursable Umbrella SAA between NASA and Herndon Solutions Group, LLC (HSG) for Contractor 3rd Party Work (C3PW) | 9/21/2022 | 9/30/2024 | Reimbursable | \$114 | KSC | KCA-4660-24 Rev Basic | Institutional and Mission Support | View Signed Agreement |
| 770 | | CPOUD | KCA-4660-23 Rev Basic, Annex 23 Fully Reimbursable Umbrella SAA between NASA and Herndon Solutions Group, LLC (HSG) for Contractor 3rd Party Work (C3PW) | 9/21/2022 | 9/30/2024 | Reimbursable | \$162 | KSC | KCA-4660-23 Rev Basic | Institutional and Mission Support | View Signed Agreement |

| ROW NO | PAM ID NO. | PARTNER NAME | TITLE/PURPOSE | SIGNATURE DATE | EXPIRATION DATE | TYPE OF AGREEMENT | TOTAL ESTIMATED VALUE | CENTER | CENTER TRACKING NUMBER (IF ANY) | EXPECTED AGENCY BENEFIT(S) | LINK TO SIGNED AGREEMENT |
|--------|-------------|--|--|----------------|-----------------|-------------------|--------------------------|--------|------------------------------------|-----------------------------------|-----------------------------|
| 771 | | HSG, LLC d/b/a HERNDON SOLUTIONS GROUP | KCA-4660-22 Rev Basic, Annex 22 Fully Reimbursable Umbrella SAA between NASA and Herndon Solutions Group, LLC (HSG) for Contractor 3rd Party Work (C3PW) | 9/21/2022 | 9/30/2024 | Reimbursable | \$1,638 | KSC | KCA-4660-22 Rev Basic | Institutional and Mission Support | View Signed Agreement |
| 772 | | HSG, LLC d/b/a HERNDON SOLUTIONS GROUP | KCA-4660-21 Rev Basic, Annex 21 Fully Reimbursable Umbrella SAA between NASA and Herndon Solutions Group, LLC (HSG) for Contractor 3rd Party Work (C3PW) | 9/21/2022 | 9/30/2024 | Reimbursable | \$7,514 | KSC | KCA-4660-21 Rev Basic | Institutional and Mission Support | View Signed Agreement |
| 773 | | HSG, LLC d/b/a HERNDON SOLUTIONS GROUP | KCA-4660-20, Rev Basic, Annex 20 Fully Reimbursable Umbrella SAA between NASA and Herndon Solutions Group, LLC (HSG) for Contractor 3rd Party Work (C3PW) | 9/21/2022 | 9/30/2024 | Reimbursable | \$1,888 | KSC | KCA-4660-20 Rev Basic | Institutional and Mission Support | View Signed Agreement |
| 774 | 37447 | CPOUD | KCA-4660-19 Rev Basic, Annex 19 Fully Reimbursable Umbrella SAA between NASA and Herndon Solutions Group, LLC (HSG) for Contractor 3rd Party Work (C3PW) | 9/21/2022 | 9/30/2024 | Reimbursable | \$1,365 | KSC | KCA-4660-19 Rev Basic | Institutional and Mission Support | View Signed Agreement |
| 775 | | HSG, LLC d/b/a HERNDON SOLUTIONS GROUP | KCA-4660-18 Rev Basic, Annex 18 Fully Reimbursable Umbrella SAA between NASA and Herndon Solutions Group, LLC (HSG) for Contractor 3rd Party Work (C3PW) | 9/21/2022 | 9/30/2024 | Reimbursable | \$13,030 | KSC | KCA-4660-18 Rev Basic | Institutional and Mission Support | View Signed Agreement |
| 776 | 1.5 / // // | HSG, LLC d/b/a HERNDON SOLUTIONS GROUP | KCA-4660-17, Rev Basic, Annex 17 to Fully Reimbursable Umbrella SAA between NASA and Herndon Solutions Group, LLC (HSG) for Contractor 3rd Party Work (C3PW) | 9/21/2022 | 9/30/2024 | Reimbursable | \$3,786 | KSC | KCA-4660-17 Rev Basic | Institutional and Mission Support | View Signed Agreement |
| 777 | 37234 | SPACE FLORIDA | KCA-4723-1, Rev Basic Annex 1 for Reimbursable Umbrella SAA between the NASA KSC and Space Florida for Use of Center Capabilities | 6/16/2023 | 6/30/2028 | Reimbursable | \$1,652,364 | KSC | KCA-4723-1 Rev Basic | Institutional and Mission Support | View Signed Agreement |
| 778 | 37233 | | KCA-4723, Rev Basic for Reimbursable Umbrella SAA between the NASA KSC and Space Florida for Use of Center 6 Capabilities | 6/16/2023 | 6/30/2028 | Reimbursable | \$0 | KSC | KCA-4723 Rev Basic | Institutional and Mission Support | View Signed Agreement |
| 779 | 37208 | Florida Institute of Technology, Inc. | KCA-4683-2, Rev Basic Annex 2 to Non-Reimbursable Space Act Agreement (NRSAA) with Florida Institute of Technology, Inc. (Florida Tech) for Audubon Road Living Shoreline Monitoring | 10/14/2022 | 10/13/2024 | Non-Reimbursable | \$82,278 | KSC | KCA-4683-2 Rev Basic | Institutional and Mission Support | View Signed Agreement |
| 780 | 37122 | Space Exploration Technologies Corporation | KCA-4722-1 Rev Basic, Annex 1 to Reimbursable Umbrella SAA between NASA KSC and SpaceX for Center Capabilities | 11/16/2022 | 11/15/2027 | Reimbursable | \$2,258,375 | KSC | KCA-4722-1 Rev Basic | Institutional and Mission Support | View Signed Agreement |

| ROW NO | . PAM ID NO. | PARTNER NAME | TITLE/PURPOSE | SIGNATURE DATE | EXPIRATION DATE | TYPE OF AGREEMENT | . TOTAL ESTIMATED VALUE | CENTER | CENTER TRACKING NUMBER (IF ANY) | EXPECTED AGENCY BENEFIT(S) | LINK TO SIGNED AGREEMENT |
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| 781 | 37121 | Space Exploration Technologies Corporation | KCA-4722 Rev Basic, Fully Reimbursable Space Act Umbrella Agreement between NASA and Space Exploration Technologies Corporation for use of Kennedy Space Center Capabilities | 11/16/2022 | 11/15/2027 | Reimbursable | \$0 | KSC | KCA-4722 Rev Basic | Institutional and Mission Support | View Signed Agreement |
| 782 | 37074 | Oak Ridge Associated Universities, Inc. | KCA-4719-2, Rev. Basic, Annex 2 to Umbrella Non-Reimbursable Space Act Agreement (NRSAA) 33159 with Oak Ridge Associated Universities, Inc. (ORAU) | 9/23/2022 | 12/15/2025 | Non-Reimbursable | \$85,725 | KSC | KCA-4719-2 Rev. Basic | Human Exploration and Operations, Institutional and Mission Support | View Signed Agreement |
| 783 | 36641 | Relativity Space, Inc. | KCA-4678-5 Rev. Basic Reimbursable Space Act Agreement (RSAA) Umbrella Between Relativity Space, Inc. and NASA Kennedy Space Center for Use of Center Capabilities | 5/5/2022 | 12/31/2023 | Reimbursable | \$1,167,688 | KSC | KCA-4678-5 Rev Basic | Human Exploration and Operations | View Signed Agreement |
| 784 | 36570 | Blue Origin Florida, LLC | KCA-4555-18 Rev Basic, Annex 18 to Fully Reimbursable Umbrella SAA Between NASA KSC and Blue Origin Florida, LLC for Use of Center Capabilities | 5/16/2022 | 12/3/2023 | Reimbursable | \$2,346,618 | KSC | KCA-4555-18 Rev Basic | Human Exploration and Operations | View Signed Agreement |
| 785 | 36352 | | KCA-4678-4 Rev Basic. Reimbursable Space Act Agreement (RSAA) Umbrella Between Relativity Space, Inc. and NASA Kennedy Space Center for Use of Center Capabilities | 3/12/2022 | 7/27/2026 | Reimbursable | \$18,442 | KSC | KCA-4678-4 Rev Basic | Human Exploration and Operations | View Signed Agreement |
| 786 | 35858 | Relativity Space, Inc. | KCA-4678-2 Rev. Basic, Annex 2 to Reimbursable Space Act Agreement (RSAA) Umbrella Between Relativity Space, Inc. and NASA Kennedy Space Center for Use of Center Capabilities | 12/17/2021 | 12/3/2023 | Reimbursable | \$10,982 | KSC | KCA-4678-2 Rev. Basic | Human Exploration and Operations | View Signed Agreement |
| 787 | 35845 | ROCKETSTAR, LLC | KCA-4701-1, Annex No. 1 to the Reimbursable Umbrella SAA Between NASA KSC and RocketStar LLC for Spaceport Operations and Integration Support | 1/19/2022 | 1/19/2027 | Reimbursable | \$54,428 | KSC | KCA-4701-1 Rev Basic | Human Exploration and Operations | View Signed Agreement |
| 788 | 35844 | ROCKETSTAR, LLC | KCA-4701 Rev Basic, Reimbursable Umbrella SAA between NASA KSC and RocketStar LLC for Use of Center Capabilities | 1/19/2022 | 1/19/2027 | Reimbursable | \$0 | KSC | KCA-4701 Rev Basic | Human Exploration and Operations | View Signed Agreement |
| 789 | 35743 | Rocket Crafters, Inc | KCA-4700-1, Rev Basic Annex 1 to the Reimbursable Space Act Agreement (RSAA) Umbrella Between NASA Kennedy Space Center and Rocket Crafters, Inc. for Spaceport Integration Support | 2/9/2022 | 2/9/2027 | Reimbursable | \$54,428 | KSC | KCA-4700-1 Rev Basic | Institutional and Mission Support | View Signed Agreement |
| 790 | 35742 | | KCA-4700, Rev Basic Umbrella Agreement Between KSC and Rocket Crafters for Use of Center Capabilities | 2/9/2022 | 2/9/2027 | Reimbursable | \$0 | KSC | KCA-4700 Rev Basic | Institutional and Mission Support | View Signed Agreement |

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| 791 | 35389 | Blue Origin Florida, LLC | KCA-4555-17 Rev Basic Annex 17 to Fully Reimbursable Umbrella SAA Between NASA KSC and Blue Origin Florida, LLC for Use of Center Capabilities | 9/15/2021 | 12/3/2023 | Reimbursable | \$1,679 | KSC | KCA-4555-17 Rev Basic | Human Exploration and Operations | View Signed Agreement |
| 792 | 35375 | Innovative Technology, Inc. | KCA-4694-1 Rev. Basic, Annex 1 to the Reimbursable Space Act Agreement (RSAA) Umbrella Agreement Between NASA and Innovative Technology, Inc. for General Corrosion Testing | | 1/14/2027 | Reimbursable | \$83,261 | KSC | KCA-4694-1 Rev. Basic | Institutional and Mission Support | View Signed Agreement |
| 793 | 35374 | Innovative Technology, Inc. | KCA-4694. Rev. Basic Fully Reimbursable Umbrella Space Act Agreement Between The National Aeronautics and Space Administration John F. Kennedy Space Center and Innovative Technology, Inc. for Use of Center Capabilities | 1/14/2022 | 1/14/2027 | Reimbursable | \$0 | KSC | KCA-4694 Rev Basic | Institutional and Mission Support | View Signed Agreement |
| 794 | 35360 | Astra Space Operations Inc | KCA-4695-1 Rev. Basic, Annex No. 1 to the Reimbursable Umbrella SAA Between NASA KSC and Astra Space Inc for Spaceport Operations and Integration Support | 12/21/2021 | 12/21/2026 | Reimbursable | \$53,999 | KSC | KCA-4695-1 Rev Basic | Human Exploration and Operations | View Signed Agreement |
| 795 | 35359 | Astra Space Operations Inc. | KCA-4695 Rev Basic, Reimbursable Umbrella SAA between NASA KSC and Astra Space Inc for Use of Center Capabilities | 12/21/2021 | 12/21/2026 | Reimbursable | \$0 | KSC | KCA-4695 Rev Basic | Human Exploration and Operations | View Signed Agreement |
| 796 | 34809 | | KCA-4683-1, Rev Basic Annex 1 to Non-Reimbursable Space Act Agreement (NRSAA) with Florida Institute of Technology, Inc. (Florida Tech) for Joint Research on the Performance of Crop Species Grown in Lunar and Martian Simulants | 10/8/2021 | 10/8/2024 | Non-Reimbursable | \$40,324 | KSC | KCA-4683-1 Rev Basic | Space Technology | View Signed Agreement |
| 797 | 34808 | Florida Institute of Technology, Inc. | KCA-4683, Rev Basic of Non-Reimbursable Space Act Agreement (NRSAA) with Florida Institute of Technology, Inc. (Florida Tech) for Collaborative Research, Education and Outreach Activities | 10/8/2021 | 10/8/2026 | Non-Reimbursable | \$0 | KSC | KCA-4683 Rev Basic | Space Technology | View Signed Agreement |
| 798 | 34588 | Relativity Space, Inc. | KCA-4678-1, Revision Basic Annex 1 to the Reimbursable Space Act Agreement (RSAA) Umbrella Between NASA Kennedy Space Center and Relativity Space, Inc. for Spaceport Integration Support | 7/27/2021 | 7/27/2026 | Reimbursable | \$58,698 | KSC | KCA-4678-1 Rev. Basic | Institutional and Mission Support | View Signed Agreement |
| 799 | 34587 | Relativity Space, Inc. | KCA-4678 Rev. Basic Reimbursable Space Act Agreement (RSAA) Umbrella Between Relativity Space, Inc. and NASA Kennedy Space Center for Use of Center Capabilities | 7/27/2021 | 7/27/2026 | Reimbursable | \$0 | KSC | KCA-4678 Rev. Basic | Institutional and Mission Support | View Signed Agreement |
| 800 | 34267 | Blue Origin Florida, LLC | KCA-4555-15 Rev Basic, Annex 15 to Fully Reimbursable Umbrella SAA Between NASA KSC and Blue Origin Florida, LLC for Use of Center Capabilities | 3/16/2021 | 12/3/2023 | Reimbursable | \$193,860 | KSC | KCA-4555-15 Rev Basic | Human Exploration and Operations | View Signed Agreement |

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| 801 | 34125 | Blue Origin Florida, LLC | KCA-4555-13 Rev Basic, Annex 13 to Fully Reimbursable Umbrella SAA Between NASA KSC and Blue Origin Florida, LLC for Use of Center Capabilities | 2/26/2021 | 12/3/2023 | Reimbursable | \$56,866 | KSC | KCA-4555-13 Rev Basic | Human Exploration and Operations | View Signed Agreement |
| 802 | 34123 | Blue Origin Florida, LLC | KCA-4555-12 Rev Basic, Annex 12 to Fully Reimbursable Umbrella SAA Between NASA KSC and Blue Origin Florida, LLC for Use of Center Capabilities | 2/10/2021 | 12/3/2023 | Reimbursable | \$9,029,130 | KSC | KCA-4555-12 Rev Basic | Human Exploration and Operations | View Signed Agreement |
| 803 | 34047 | Aviom Space LLC | KCA-4682-1 Rev Basic, Annex No. 1 to the Fully Reimbursable Umbrella SAA Between NASA KSC and Axiom Space, Inc. for Spaceport Operations and Integration Support | 1/24/2022 | 9/30/2023 | Reimbursable | \$10,344 | KSC | KCA-4682-1 Rev Basic | Institutional and Mission Support | View Signed Agreement |
| 804 | 34046 | Axiom Space, LLC | KCA-4682, Rev. Basic Fully Reimbursable Umbrella SAA Between NASA KSC and Axiom Space, Inc. for Use of Center Capabilities | 1/24/2022 | 1/24/2027 | Reimbursable | \$0 | KSC | KCA-4682, Rev. Basic | Institutional and Mission Support | View Signed Agreement |
| 805 | 34023 | Firefly Aerospace Inc. | KCA-4671-1, Revision Basic Annex 1 to the Reimbursable Space Act Agreement (RSAA) Umbrella Agreement Between NASA KSC and Firefly Aerospace Inc. for Launch Telemetry and Communication Services at Vandenberg Air Force Base | | 3/1/2026 | Reimbursable | \$1,418,147 | KSC | KCA-4671-1 Rev. Basic | Human Exploration and Operations | View Signed Agreement |
| 806 | 34022 | Firefly Aerospace Inc. | KCA-4671, Rev. Basic Fully Reimbursable Umbrella SAA Between NASA KSC and Firefly Aerospace Inc. for Use of Center Capabilities | 3/1/2021 | 3/1/2026 | Reimbursable | \$0 | KSC | KCA-4671 Rev. Basic | Human Exploration and Operations | View Signed Agreement |
| 807 | 33991 | | KCA-4608 Rev Basic, Fully Reimbursable Umbrella SAA between NASA and PAE-SGT Partners LLC for C3PW | 9/15/2021 | 3/31/2025 | Reimbursable | \$0 | KSC | KCA-4608 Rev Basic | Institutional and Mission Support | View Signed Agreement |
| 808 | 33945 | United Launch Alliance | KCA-4654-1 Rev Basic, Annex 1 for Demonstration of Cryogenic Technologies in a Flight-like Upper Stage | 6/23/2022 | 6/22/2027 | Non-Reimbursable | \$1,054,919 | KSC | KCA-4654-1 Rev Basic | Human Exploration and Operations | View Signed Agreement |
| 809 | 33944 | United Launch Alliance | KCA-4654, Rev Basic of Non-Reimbursable Space Act Agreement (NRSAA) with United Launch Alliance (ULA) for Demonstration of Cryogenic and Secondary Payload Technologies for Launch Vehicles | 6/23/2022 | 6/22/2027 | Non-Reimbursable | \$0 | KSC | KCA-4654 Rev Basic | Human Exploration and Operations, Space Technology | View Signed Agreement |
| 810 | 33890 | Blue Origin Florida, LLC | KCA-4555-14 Rev Basic, Annex 14 to Fully Reimbursable Umbrella SAA Between NASA KSC and Blue Origin Florida, LLC for Use of Center Capabilities | 2/10/2021 | 12/3/2023 | Reimbursable | \$404,132 | KSC | KCA-4555-14 Rev Basic | Human Exploration and Operations | View Signed Agreement |

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| 811 | 33564 | THE BOEING COMPANY | KCA-4515-9 Rev Basic, Annex 9 to Reimbursable Umbrella SAA between NASA KSC and The Boeing Company for Use of Center Capabilities | 11/17/2020 | 9/30/2023 | Reimbursable | \$29,166 | KSC | KCA-4515-9 Rev Basic | Human Exploration and Operations | View Signed Agreement |
| 812 | | Association | KCA-4676 Rev Basic, Reimbursable Space Act Agreement Between NASA-KSC and Southeast Coastal Ocean Observing Regional Association for Electrical Services | 3/31/2022 | 3/30/2027 | Reimbursable | \$2,079 | KSC | KCA-4676 Rev. Basic | Institutional and Mission Support | View Signed Agreement |
| 813 | | CPOUR | KCA-4660 Rev Basic, Fully Reimbursable Umbrella SAA between NASA and HSG, LLC d/b/a Herndon Solutions Group for C3PW | 10/7/2020 | 9/30/2024 | Reimbursable | \$0 | KSC | KCA-4660 Rev Basic | Institutional and Mission Support | View Signed Agreement |
| 814 | 33420 | | KCA-4662 Rev Basic, Fully Reimbursable Umbrella SAA between NASA and Amentum Services, Inc. for C3PW | 10/29/2020 | 9/30/2024 | Reimbursable | \$0 | KSC | KCA-4662 Rev Basic | Institutional and Mission Support | View Signed Agreement |
| 815 | 33334 | THE BOEING COMPANY | KCA-4515-8 Rev Basic, Annex 8 to Reimbursable Umbrella SAA between NASA KSC and The Boeing Company for Use of Center Capabilities | 9/15/2020 | 9/30/2023 | Reimbursable | \$19,293 | KSC | KCA-4515-8 Rev Basic | Human Exploration and Operations | View Signed Agreement |
| 816 | 33163 | United States Department of Agriculture | KCA-4657 Rev Basic, Memorandum of Understanding between USDA-ARS and KSC for Plant Propagation Research | 10/19/2020 | 10/19/2025 | Non-Reimbursable | \$1,136,703 | KSC | KCA-4657 Rev Basic | Human Exploration and Operations, Space Technology | View Signed Agreement |
| 817 | 33150 | | KCA-4658 Rev Basic, Memorandum of Understanding between USDA-ARS and KSC for Microgreens Research | 10/20/2020 | 10/19/2025 | Non-Reimbursable | \$556,319 | KSC | KCA-4658 Rev Basic | Human Exploration and Operations, Space Technology | View Signed Agreement |
| 818 | 32750 | KT Engineering Corporation | KCA-4650-1 Rev Basic, Annex No. 1 to the Fully Reimbursable Umbrella SAA Between NASA KSC and KT Engineering Corp. for Ground Systems Design Review | 9/1/2020 | 9/1/2025 | Reimbursable | \$149,287 | KSC | KCA-4650-1 Rev Basic | Human Exploration and Operations | View Signed Agreement |
| 819 | 32749 | KT Engineering Corporation | KCA-4650, Rev. Basic Fully Reimbursable Umbrella SAA Between NASA KSC and KT Engineering Corp. for Use of Center Capabilities | 9/1/2020 | 9/1/2025 | Reimbursable | \$0 | KSC | KCA-4650 Rev Basic | Human Exploration and Operations | View Signed Agreement |
| 820 | 32666 | The University of Central Florida | KCA-4648-1 Rev. Basic, Annex 1 of Reimbursable Space Act Umbrella Agreement Between the National Aeronautics and Space Administration (NASA) John F. Kennedy Space Center (KSC) and The University of Central Florida (UCF) Central Florida Board of Trustees for Use of Center Capabilities | 2/25/2022 | 2/24/2027 | Reimbursable | \$713,131 | KSC | KCA-4648-1 Rev. Basic | Institutional and Mission Support | View Signed Agreement |

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| 821 | 32665 | University of Central Florida Board of Trustees | KCA-4648 Rev. Basic, Reimbursable Space Act Umbrella Agreement Between The National Aeronautics and Space Administration (NASA) John F. Kennedy Space Center (KSC) and The University of Central Florida (UCF) Central Florida Board of Trustees for Use of Center Capabilities | 2/25/2022 | 2/24/2027 | Reimbursable | \$30,077 | KSC | KCA-4648 Rev. Basic | Space Technology | View Signed Agreement |
| 822 | 32270 | Florida League of Cities | KCA-4601-2 Rev Basic, Annex 2 to Reimbursable Umbrella SAA between NASA KSC and Florida League of Cities for Development and Demonstration of Sustainable Composites (KCA-4601) | 5/3/2021 | 7/1/2024 | Reimbursable | \$548,002 | KSC | KCA-4601-2 Rev Basic | Space Technology | View Signed Agreement |
| 823 | 32261 | Space Perspective, Inc. | KCA-4641, Rev. Basic Fully Reimbursable Umbrella SAA Between NASA KSC and Space Perspective, Inc. for Use of Center Capabilities | 4/27/2020 | 4/27/2025 | Reimbursable | \$0 | KSC | KCA-4641 Rev Basic | Human Exploration and Operations | View Signed Agreement |
| 824 | 32039 | Blue Origin Florida, LLC | KCA-4555-8 Rev Basic, Annex 8 to Fully Reimbursable Umbrella SAA Between NASA KSC and Blue Origin Florida, LLC for Use of Center Capabilities | 2/21/2020 | 12/3/2023 | Reimbursable | \$927,758 | KSC | KCA-4555-8 Rev Basic | Human Exploration and Operations | View Signed Agreement |
| 825 | 31927 | The Astronauts Memorial Foundation | KCA-4638, Revision Basic for Reimbursable Space Act Agreement Between NASA KSC and the Astronaut Memorial Foundation, Inc. for Services at the Center for Space Education | 6/5/2020 | 6/4/2025 | Reimbursable | \$490,882 | KSC | KCA-4638 Rev Basic | Institutional and Mission Support | View Signed Agreement |
| 826 | 31878 | Blue Origin Florida, LLC | KCA-4555-7 Rev Basic, Annex No. 7 to Fully Reimbursable Umbrella SAA Between NASA KSC and Blue Origin Florida, LLC for Use of Center Capabilities | 1/27/2020 | 12/3/2023 | Reimbursable | \$74,487 | KSC | KCA-4555-7 Rev Basic | Human Exploration and Operations | View Signed Agreement |
| 827 | 31382 | THE BOEING COMPANY | KCA-4515-7 Rev Basic, Annex 7 to Reimbursable Umbrella SAA between NASA KSC and The Boeing Company for Use of Center Capabilities | 10/17/2019 | 9/30/2023 | Reimbursable | \$1,087,279 | KSC | KCA-4515-7 Rev. Basic | Human Exploration and Operations | View Signed Agreement |
| 828 | 31241 | | KCA-4629 Rev Basic, High Schools United with NASA to Create Hardware (HUNCH) | 10/22/2019 | 10/22/2024 | Non-Reimbursable | \$28,331 | KSC | KCA-4629 Rev Basic | Education and/or Public Engagement | View Signed Agreement |
| 829 | 31127 | THE BOEING COMPANY | KCA-4515-3 Rev Basic, Annex No. 3 to Reimbursable Umbrella SAA between NASA KSC and The Boeing Company for Use of Center Capabilities (KCA-4515-3) | 9/13/2019 | 9/30/2023 | Reimbursable | \$49,765 | KSC | KCA-4515-3 Rev Basic | Human Exploration and Operations | View Signed Agreement |
| 830 | 1.71.16.7.7 | SPACE COAST MACHINIST APPRENTICESHIP PROGRAM, INC. | KCA-4625 Rev Basic, Nonreimbursable Space Act Agreement Between the National Aeronautics and Space Administration John F. Kennedy Space Center and Space Coast Machinist Apprenticeship Program for High Schools United with NASA to Create Hardware (HUNCH) Program | 10/24/2019 | 10/24/2024 | Non-Reimbursable | \$28,397 | KSC | KCA-4625 Rev Basic | Education and/or Public Engagement | View Signed Agreement |

| ROW NO | PAM ID NO. | PARTNER NAME | TITLE/PURPOSE | SIGNATURE DATE | EXPIRATION DATE | TYPE OF AGREEMENT | TOTAL ESTIMATED VALUE | CENTER | CENTER TRACKING NUMBER (IF ANY) | EXPECTED AGENCY BENEFIT(S) | LINK TO SIGNED AGREEMENT |
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| 831 | 30212 | Blue Origin Florida, LLC | KCA-4555-5 Rev Basic, Annex No.5 to Fully Reimbursable Umbrella SAA Between NASA KSC and Blue Origin Florida, LLC for Use of Center Capabilities | 4/25/2019 | 12/3/2023 | Reimbursable | \$717,194 | KSC | KCA-4555-5 Rev Basic | Human Exploration and Operations | View Signed Agreement |
| 832 | 30047 | Blue Origin Florida, LLC | KCA-4555-4 Rev Basic, Annex No. 4 to Fully Reimbursable Umbrella SAA Between NASA KSC and Blue Origin Florida, LLC for Use of Center Capabilities (KCA-4555-4) | 4/5/2019 | 12/3/2023 | Reimbursable | \$46,596 | KSC | KCA-4555-4 Rev Basic | Human Exploration and Operations | View Signed Agreement |
| 833 | 29903 | ASTRONAUTS MEMORIAL FOUNDATION | KCA-4605 Rev Basic, SAA between NASA and the Astronaut Memorial Foundation for a NASA Exploration Station | 4/5/2019 | 4/5/2024 | Non-Reimbursable | \$1,082,832 | KSC | KCA-4605 Rev Basic | Institutional and Mission Support | View Signed Agreement |
| 834 | 29814 | Florida League of Cities | KCA-4601 Rev Basic, Reimbursable Umbrella SAA between NASA KSC and Florida League of Cities for Development and Demonstration of Sustainable Composites (KCA-4601) | 7/1/2019 | 7/1/2024 | Reimbursable | \$0 | KSC | KCA-4601 Rev Basic | Space Technology | View Signed Agreement |
| 835 | 29804 | Astrotech Space Operations, LLC | KCA-4603, Nonreimbursable Space Act Agreement Between NASA KSC and Astrotech Space Operations, LLC for Reciprocal Access to Fiber Optic Communications Circuit | | 8/21/2024 | Non-Reimbursable | \$172,855 | KSC | KCA-4603 Rev. Basic | Institutional and Mission Support | View Signed Agreement |
| 836 | 29787 | Blue Origin Florida, LLC | KCA-4555-3 Rev Basic, Annex No. 3 to Fully Reimbursable Umbrella SAA Between NASA KSC and Blue Origin Florida, LLC for Use of Center Capabilities (KCA-4555-3) | 2/14/2019 | 12/3/2023 | Reimbursable | \$86,145 | KSC | KCA-4555-3 Rev Basic | Human Exploration and Operations | View Signed Agreement |
| 837 | 29729 | Blazing Trails | KCA-4606, Nonreimbursable Space Act Agreement Between the National Aeronautics and Space Administration John F. Kennedy Space Center and Blazing Trails for High Schools United with NASA to Create Hardware (HUNCH) Program | | 5/8/2024 | Non-Reimbursable | \$48,432 | KSC | KCA-4606 Rev Basic | Education and/or Public Engagement | View Signed Agreement |
| 838 | 29652 | Pressure Dynamic Consultants PDC Machines Inc. | KCA-4598 Rev Basic, Reimbursable Umbrella SAA with PDC for High Pressure Hydrogen Pump Research and Testing | 6/5/2019 | 6/4/2024 | Reimbursable | \$0 | KSC | KCA-4598 Rev Basic | Space Technology | View Signed Agreement |
| 839 | 29609 | Blue Origin Florida, LLC | KCA-4555-2 Rev Basic, Annex No. 2 to Fully Reimbursable Umbrella SAA Between NASA KSC and Blue Origin Florida, LLC for Use of Center Capabilities | 12/27/2018 | 12/3/2023 | Reimbursable | \$471 | KSC | KCA-4555-2 Rev Basic | Human Exploration and Operations | View Signed Agreement |
| 840 | 29503 | University of North Dakota | KCA-4595 Rev Basic, Non-reimbursable Space Act Agreement with University of North Dakota MISSE-11 Mission for Spacesuit Material Sample | 12/13/2018 | 12/13/2023 | Non-Reimbursable | \$2,214 | KSC | KCA-4595 Rev Basic | Human Exploration and Operations, Science | View Signed Agreement |

| ROW NO | PAM ID NO. | PARTNER NAME | TITLE/PURPOSE | SIGNATURE DATE | EXPIRATION DATE | TYPE OF AGREEMENT | TOTAL ESTIMATED VALUE | CENTER | CENTER TRACKING NUMBER (IF ANY) | EXPECTED AGENCY BENEFIT(S) | LINK TO SIGNED AGREEMENT |
|--------|------------|------------------------|---|----------------|-----------------|-------------------|--------------------------|--------|------------------------------------|------------------------------------|-----------------------------|
| 841 | 29404 | | KCA-4586 Rev Basic, Non-reimbursable Space Act Agreement between NASA, KSC and Level 3 Communications LLC for Use of Various Fiber Optics Terminals | 2/22/2019 | 2/22/2024 | Non-Reimbursable | \$0 | KSC | KCA-4586 Rev Basic | Institutional and Mission Support | View Signed Agreement |
| 842 | 29277 | BLUE ORIGIN, LLC | KCA-4555-1 Rev Basic, Annex 1 for Fully Reimbursable Umbrella SAA Between NASA KSC and Blue Origin Florida, LLC for Use of Center Capabilities | 12/3/2018 | 12/3/2023 | Reimbursable | \$477,888 | KSC | KCA-4555-1 Rev. Basic | Human Exploration and Operations | View Signed Agreement |
| 843 | 29276 | | KCA-4555 Rev Basic, Fully Reimbursable Umbrella SAA Between NASA KSC and Blue Origin Florida, LLC for Use of Center Capabilities | 12/3/2018 | 12/3/2023 | Reimbursable | \$0 | KSC | KCA-4555 Rev. Basic | Human Exploration and Operations | View Signed Agreement |
| 844 | 29263 | THE BOEING COMPANY | KCA-4515-4 Rev Basic, Annex No. 4 to Reimbursable Umbrella SAA between NASA KSC and The Boeing Company for Use of Center Capabilities | 10/1/2018 | 9/30/2023 | Reimbursable | \$58,740 | KSC | KCA-4515-4 Rev Basic | Human Exploration and Operations | View Signed Agreement |
| 845 | 29191 | Volusia County Schools | KCA-4591 Rev Basic, Nonreimbursable SAA between NASA, KSC and Volusia County Schools for High School Students United with NASA to Create Hardware (HUNCH) Program Participation with Volusia County Schools | 3/7/2019 | 3/7/2024 | Non-Reimbursable | \$70,444 | KSC | KCA-4591 Rev Basic | Education and/or Public Engagement | View Signed Agreement |
| 846 | 29174 | Lake Technical College | KCA-4590, Nonreimbursable SAA between NASA, KSC and Lake Technical College for High School Students United with NASA to Create Hardware (HUNCH) Program Participation with Lake Technical College (LTC) | 3/15/2019 | 3/15/2024 | Non-Reimbursable | \$67,904 | KSC | KCA-4590 Rev Basic | Education and/or Public Engagement | View Signed Agreement |
| 847 | 28870 | THE BOEING COMPANY | KCA-4515-1 Rev Basic, Annex No. 1 to Reimbursable Umbrella SAA between NASA KSC and The Boeing Company for Use of Center Capabilities | 8/21/2018 | 9/30/2023 | Reimbursable | \$741,639 | KSC | KCA-4515-1 Rev Basic | Human Exploration and Operations | View Signed Agreement |
| 848 | 28869 | THE BOEING COMPANY | KCA-4515 Rev Basic, Reimbursable Umbrella SAA between NASA KSC and The Boeing Company for Use of Center Capabilities | 8/21/2018 | 9/30/2023 | Reimbursable | \$0 | KSC | KCA-4515 Rev Basic | Human Exploration and Operations | View Signed Agreement |
| 849 | 27912 | University of Florida | KCA-4572-1 Rev Basic, Annex No. 1 to Development of Biological Imaging Systems for Growth, Biological Assessment of Flight Hardware and Space Biology Studies in Space relevant Environments with University of Florida (KCA- 4572-1) | 11/14/2018 | 11/14/2023 | Non-Reimbursable | \$129,077 | KSC | KCA-4572-1 Rev Basic | Human Exploration and Operations | View Signed Agreement |
| 850 | 27911 | University of Florida | KCA-4572 Rev Basic, Nonreimbursable Space Act Agreement for Collaborative Research, Technology Transfer, Academic Engagement, and Outreach Activities | 11/14/2018 | 11/14/2023 | Non-Reimbursable | \$0 | KSC | KCA-4572 Rev Basic | Human Exploration and Operations | View Signed Agreement |

| ROW N | D. PAM ID NO. | PARTNER NAME | TITLE/PURPOSE | SIGNATURE DATE | EXPIRATION DATE | TYPE OF AGREEMENT | TOTAL ESTIMATED VALUE | CENTER | CENTER TRACKING NUMBER (IF ANY) | EXPECTED AGENCY BENEFIT(S) | LINK TO SIGNED AGREEMENT |
|-------|---------------|---|---|----------------|-----------------|-------------------|--------------------------|--------|------------------------------------|----------------------------|-----------------------------|
| 851 | 39532 | VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY | Annex to COLLABORATIVE RESEARCH, DEVELOPMENT, AND TESTING OPPORTUNITIES | 9/15/2023 | 9/15/2024 | Non-Reimbursable | \$20,303 | LaRC | SAA1-36204, Annex 3 | Aeronautics | View Signed Agreement |
| 852 | 39497 | ASTROBOTIC TECHNOLOGY, INC | LunaGrid-Lite: Demonstration of Tethered, Scalable Lunar Power Transmission | 7/20/2023 | 7/20/2028 | Funded | \$34,723,195 | LaRC | FSAA-39497 | Space Technology | View Signed Agreement |
| 853 | 39419 | Big Metal Additive, LLC | Improving Cost and Availability of Space Habitat Structures and Additive Manufacturing | 7/20/2023 | 7/20/2028 | Funded | \$5,350,580 | LaRC | FSAA-39419 | Space Technology | View Signed Agreement |
| 854 | 39400 | BLUE ORIGIN, LLC | ISRU-Based Power on the Moon | 7/20/2023 | 7/20/2028 | Funded | \$35,543,195 | LaRC | FSAA-39400 | Space Technology | View Signed Agreement |
| 855 | 39241 | AIBOT US Supply, Inc. | Flight-Test System Identification for Electric Vertical Take-Off and Landing (eVTOL) Aircraft | 9/29/2023 | 9/29/2025 | Non-Reimbursable | \$229,569 | LaRC | SAA1-39241 | Aeronautics | View Signed Agreement |
| 856 | 39196 | WICHITA STATE UNIVERSITY | Advancement of Composite Cryotank Technology | 9/29/2023 | 9/30/2025 | Non-Reimbursable | \$55,055 | LaRC | SAA1-39196 | Space Technology | View Signed Agreement |
| 857 | 39005 | Onyx Aerospace | Conceptual Design of Hypersonic Inflatable Aerodynamic Decelerator (HIAD) Reentry System | 6/23/2023 | 6/22/2024 | Reimbursable | \$144,395 | LaRC | SAA8-2135668, Annex 4 | Space Technology | View Signed Agreement |
| 858 | 38942 | Sierra Space Corporation | Collaboration on Development of Ceramic Matrix Composite Structures for Reentry Vehicles. | 9/12/2023 | 9/12/2026 | Non-Reimbursable | \$458,777 | LaRC | SAA1-38941, Annex 1 | Aeronautics | View Signed Agreement |
| 859 | 38941 | Sierra Space Corporation | COLLABORATIVE RESEARCH AND DEVELOPMENT IN THE AREA OF HYPERSONIC TECHNOLOGIES. | 9/12/2023 | 9/12/2028 | Non-Reimbursable | \$0 | LaRC | SAA1-38941 | Aeronautics | View Signed Agreement |
| 860 | 38780 | BLUE ORIGIN, LLC | SCIFLI NEW SHEPARD CALIBRATION SUPPORT | 7/25/2023 | 9/30/2024 | Reimbursable | \$149,875 | LaRC | SAA8-2235543 | Space Technology | View Signed Agreement |

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| 861 | 38727 | Ramboll US Consulting, Inc. | Source-Sector NOx Emissions Analysis with sub-kilometer Scale Airborne Observations in Houston during Tracking Aerosol Convection interactions ExpeRiment for Air Quality (TRACER-AQ) | 5/30/2023 | 1/30/2024 | Reimbursable | \$30,000 | LaRC | SAA1-38727 | Science | View Signed Agreement |
| 862 | 38659 | The Boeing Company | 2023 Boeing ecoDemonstrator Emissions Flight Test | 9/27/2023 | 9/27/2025 | Non-Reimbursable | \$2,617,415 | LaRC | SAA1-35361, Annex 2 | Aeronautics | View Signed Agreement |
| 863 | 38658 | General Electric Aerospace | 2023 ecoDemonstrator Emissions Flight Test | 7/28/2023 | 7/28/2026 | Reimbursable | \$1,526,000 | LaRC | SAA1-38658 | Aeronautics | View Signed Agreement |
| 864 | 38585 | Northrop Grumman Corporation | annex to REIMBURSABLE SPACE ACT UMBRELLA AGREEMENT No.31359/SAA2-403514 BETWEEN NASA ARC AND NORTHROP GRUMMAN CORPORATION FOR WIND TUNNEL TESTING | 9/25/2023 | 9/25/2024 | Reimbursable | \$83,023 | LaRC | SAA2-403514, Annex 6 | Aeronautics | View Signed Agreement |
| 865 | | | SPACE MIRROR APERTURE ASSEMBLY INTEGRATED HARDWARE TESTING | 4/10/2023 | 4/10/2024 | Non-Reimbursable | \$282,727 | LaRC | SAA1-36330, Annex 2 | Space Technology | View Signed Agreement |
| 866 | 38509 | Donr Inc | Advanced Acoustic Liner Evaluation via the NASA Curved Duct Test Rig (CDTR) | 6/2/2023 | 6/2/2024 | Reimbursable | \$75,471 | LaRC | SAA1-38508, Annex 1 | Aeronautics | View Signed Agreement |
| 867 | 38508 | Rohr, Inc. | Advanced Acoustic Liner Research | 6/2/2023 | 6/2/2028 | Reimbursable | \$0 | LaRC | SAA1-38508 | Aeronautics | View Signed Agreement |
| 868 | 38387 | FGC Plasma Solutions Incorporation | Plasma Torch Testing for Hypersonic Propulsion Applications | 3/17/2023 | 3/17/2024 | Reimbursable | \$52,131 | LaRC | SAA1-38387 | Aeronautics | View Signed Agreement |
| 869 | 38126 | | Evaluation of Aerospace Coatings for Mitigation of Environmental Contaminants | 5/1/2023 | 10/1/2023 | Reimbursable | \$13,190 | LaRC | SAA1-38126 | Aeronautics | View Signed Agreement |
| 870 | 38099 | INTUITIVE MACHINES, LLC | EARTH ENTRY VEHICLE CONCEPTUAL DESIGN | 1/26/2023 | 1/26/2024 | Reimbursable | \$170,000 | LaRC | SAA1-38098, Annex 1 | Space Technology | View Signed Agreement |

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| 871 | 38098 | INTUITIVE MACHINES, LLC | Earth Entry Vehicle Support | 1/26/2023 | 1/26/2028 | Reimbursable | \$0 | LaRC | SAA1-38098 | Space Technology | View Signed Agreement |
| 872 | 38060 | MathWorks | Custom Flight Control Law Integration into a Subscale eVTOL Aircraft | 4/6/2023 | 10/6/2024 | Non-Reimbursable | \$198,884 | LaRC | SAA1-38060 | Aeronautics | View Signed Agreement |
| 873 | 37972 | INTEL CORPORATION | Fabrication of Copper and Diamond Composite Test Samples | 3/14/2023 | 3/14/2025 | Reimbursable | \$64,092 | LaRC | SAA1-32088, Annex 2 | Space Technology | View Signed Agreement |
| 874 | 37877 | UNITED LAUNCH ALLIANCE, LLC | HIAD DEVELOPMENT TO MISSION PDR LEVEL | 12/12/2022 | 12/12/2023 | Reimbursable | \$6,022,326 | LaRC | SAA1-37876, Annex 1 | Space Technology | View Signed Agreement |
| 875 | 37876 | UNITED LAUNCH ALLIANCE, LLC | COMMERCIAL SPACE TRANSPORTATION DEVELOPMENT SUPPORT | 12/12/2022 | 12/12/2027 | Reimbursable | \$0 | LaRC | SAA1-37876 | Space Technology | View Signed Agreement |
| 876 | 37804 | JOHNS HOPKINS UNIVERSITY / APPLIED PHYSICS LAB | Advanced Cooling Architectures Wind Tunnel Experiments | 3/21/2023 | 3/21/2024 | Non-Reimbursable | \$262,741 | LaRC | SAA1-37803, Annex 1 | Aeronautics | View Signed Agreement |
| 877 | 37803 | JOHNS HOPKINS UNIVERSITY / APPLIED PHYSICS LAB | BOUNDARY LAYER TRANSITION (BOLT) AND BOLT DERIVATIVE RESEARCH COLLABORATION | 3/21/2023 | 3/21/2028 | Non-Reimbursable | \$0 | LaRC | SAA1-37803 | Aeronautics | View Signed Agreement |
| 878 | 37763 | Blue Origin, LLC | Return of LMS Prototype | 1/31/2023 | 1/31/2024 | Reimbursable | \$17,397 | LaRC | SAA2-403403, Annex 10 | Space Technology | View Signed Agreement |
| 879 | 37696 | Blue Origin, LLC | Terathertz Scanning Application for Blue Origin | 12/6/2022 | 12/6/2023 | Reimbursable | \$61,977 | LaRC | SAA-EA-20-29343, Annex 2 | 6 Institutional and Mission Support | View Signed Agreement |
| 880 | 37676 | Lockheed Martin | Computational Materials-Informed Qualification and Certification | 8/29/2023 | 8/29/2028 | Non-Reimbursable | \$262,115 | LaRC | SAA1-37675, Annex 1 | Aeronautics | View Signed Agreement |

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| 881 | 37675 | Lockheed Martin | Capabilities to Support Development and Acceptance of Advanced Manufacturing | 8/29/2023 | 8/29/2028 | Non-Reimbursable | \$0 | LaRC | SAA1-37675 | Aeronautics | View Signed Agreement |
| 882 | 37672 | Wichita State University | Use of Additive Manufacturing for Novel Acoustic Liners | 12/12/2022 | 10/1/2023 | Non-Reimbursable | \$36,378 | LaRC | SAA1-28789, Annex 2 | Aeronautics | View Signed Agreement |
| 883 | 37656 | Blue Origin, LLC | SCIFLI LOFTID Imaging Mission (SLIM) | 10/13/2022 | 10/13/2023 | Reimbursable | \$1,489,739 | LaRC | SAA8-2235543, Annex 6 | Space Technology | View Signed Agreement |
| 884 | 37655 | Blue Origin, LLC | Aerothermal and Aerodynamic Testing and Analysis Support | 10/27/2022 | 10/27/2023 | Reimbursable | \$395,696 | LaRC | SAA8-2235543, Annex 5 | Space Technology | View Signed Agreement |
| 885 | 37623 | Raytheon Company | Aeroheating in LAL | 11/17/2022 | 12/1/2025 | Reimbursable | \$373,424 | LaRC | SAA1-37623 | Aeronautics | View Signed Agreement |
| 886 | 37557 | Joby Aero, Inc | Collaboration with Joby, Inc. on Aerospace Technologies for Integrated Airspace Operations for Urban Air Mobility (UAM) | 3/9/2023 | 5/9/2027 | Non-Reimbursable | \$476,202 | LaRC | SAA2-403660, Annex 2 | Aeronautics | View Signed Agreement |
| 887 | 37517 | Hampton University | Polarimetry Studies | 4/20/2023 | 4/20/2025 | Non-Reimbursable | \$139,795 | LaRC | SAA1-37493, Annex 2 | Science | View Signed Agreement |
| 888 | 37498 | RELATIVITY SPACE, INC. | UNSTEADY AERODYNAMIC TEST IN NASA LaRC UPWT | 12/1/2022 | 9/30/2024 | Reimbursable | \$293,564 | LaRC | SAA8-2033020, Annex 2 | Space Technology | View Signed Agreement |
| 889 | 37494 | Hampton University | Lidar Studies | 4/20/2023 | 4/20/2025 | Non-Reimbursable | \$182,117 | LaRC | SAA1-37493, Annex 1 | Science | View Signed Agreement |
| 890 | 37493 | Hampton University | Collaboration Research, Development, and Testing | 4/20/2023 | 4/20/2025 | Non-Reimbursable | \$0 | LaRC | SAA1-37493 | Science | View Signed Agreement |

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| 891 | 37294 | uAvionix Corporation | NASA and uAvionix UAS C2 Collaboration | 2/23/2023 | 2/23/2025 | Non-Reimbursable | \$79,542 | LaRC | SAA1-37294 | Aeronautics | View Signed Agreement |
| 892 | 36977 | The Longbow Group, LLC | High Density Vertiplex Technologies and Concepts | 11/8/2022 | 11/8/2024 | Non-Reimbursable | \$337,173 | LaRC | SAA1-34272, Annex 3 | Aeronautics | View Signed Agreement |
| 893 | 36944 | INERCHEL BUTKKETTIVKETKI | COLLABORATIVE RESEARCH AND DEVELOPMENT IN THE AREA OF HYPERSONIC TECHNOLOGIES. | 8/11/2022 | 8/11/2027 | Reimbursable | \$0 | LaRC | SAA1-36944 | Aeronautics | View Signed Agreement |
| 894 | 36938 | SIERRA NEVADA CORPORATION | THERMAL MODELING, ANALYSIS, AND TESTING SUPPORT | 7/12/2022 | 12/31/2024 | Reimbursable | \$297,709 | LaRC | Task Plan 006 (36938) | Space Technology | View Signed Agreement |
| 895 | | VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY | Advanced Sensing for Urban Air Mobility and Intelligent Transportation Systems | 8/30/2022 | 8/30/2024 | Non-Reimbursable | \$110,500 | LaRC | SAA1-36204-ANNEX 2 | Aeronautics | View Signed Agreement |
| 896 | 36891 | | Implementation and Optimization of Conventional and Novel Acoustic Liner Concepts | 7/1/2022 | 12/31/2023 | Non-Reimbursable | \$26,488 | LaRC | SAA1-36890, Annex 1 | Aeronautics | View Signed Agreement |
| 897 | 36890 | Honeywell International Inc. | Exploration of acoustic liner technology to enable quieter aircraft | 7/1/2022 | 6/30/2027 | Non-Reimbursable | \$0 | LaRC | SAA1-36890 | Aeronautics | View Signed Agreement |
| 898 | 36826 | Port Authority of New York and New Jersey | Concepts of Operation (ConOps) and Airspace Procedure Investigations for UAM in New York City | 2/17/2023 | 2/16/2028 | Non-Reimbursable | \$767,172 | LaRC | SAA1-36825, Annex 1 | Aeronautics | View Signed Agreement |
| 899 | 36825 | | Urban Air Mobility (UAM) and Advanced Air Mobility (AAM) Exploratory Research for New York City | 2/17/2023 | 2/16/2028 | Non-Reimbursable | \$0 | LaRC | SAA1-36825 | Aeronautics | View Signed Agreement |
| 900 | 36809 | Oklahoma State University | Exploration of Thermoacoustic Stack Designs | 7/11/2022 | 10/11/2023 | Non-Reimbursable | \$13,376 | LaRC | SAA1-36809 | Aeronautics | View Signed Agreement |

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| 901 | 36768 | The City of Hampton Police Department | Storage of Ammunition and Access to Firing Range | 4/10/2023 | 7/1/2024 | Non-Reimbursable | \$7,555 | LaRC | SAA1-36768 | Institutional and Mission Support | View Signed Agreement |
| 902 | 36718 | Hexcel Corporation | Investigation of Novel Acoustic Liner Concepts | 6/10/2022 | 6/10/2024 | Non-Reimbursable | \$20,634 | LaRC | SAA1-33328, Annex 2 | Aeronautics | View Signed Agreement |
| 903 | 36549 | Paradigm Materials | Development of AERoBOND Materials Co-Cure Assembly of Composite Structures | 5/26/2022 | 11/26/2023 | Non-Reimbursable | \$141,864 | LaRC | SAA1-36549 | Aeronautics | View Signed Agreement |
| 904 | 36476 | | INVESTIGATION OF SILK-BASED MATERIALS FOR SPACE APPLICATONS | 4/26/2022 | 10/26/2023 | Non-Reimbursable | \$13,434 | LaRC | SAA1-36475-Annex 1 | Space Technology | View Signed Agreement |
| 905 | 36475 | | COLLABORATIVE RESEARCH, DEVELOPMENT, AND TESTING OPPORTUNITIES | 4/26/2022 | 4/26/2027 | Non-Reimbursable | \$0 | LaRC | SAA1-36475 | Space Technology | View Signed Agreement |
| 906 | 36469 | | Design, Development, and Assessment of Noise Reduction Technology for Quiet Aircraft | 6/22/2022 | 12/22/2023 | Non-Reimbursable | \$34,882 | LaRC | SAA1-36468, Annex 1 | Aeronautics | View Signed Agreement |
| 907 | 36468 | Raytheon Technologies Corporation | Metamaterial-Based Acoustic Liner Design Methods | 6/22/2022 | 6/21/2027 | Non-Reimbursable | \$0 | LaRC | SAA1-36468 | Aeronautics | View Signed Agreement |
| 908 | 36451 | | CONCEPTUAL DESIGN OF HIAD FOR REUSABLE SATELLITE | 8/9/2022 | 9/30/2024 | Reimbursable | \$413,737 | LaRC | SAA1-36450-ANNEX 1 | Space Technology | View Signed Agreement |
| 909 | 36450 | | DESIGN AND FABRICATION OF A HIAD TO ENABLE RETURN AND RECOVERY OF SATELLITES FOR REUSE | 8/9/2022 | 8/9/2027 | Reimbursable | \$0 | LaRC | SAA1-36450 | Space Technology | View Signed Agreement |
| 910 | 36429 | VENUS AEROSPACE CORPORATION | High Mach Aircraft Research, Development and Collaboration | 3/24/2023 | 3/24/2025 | Non-Reimbursable | \$253,610 | LaRC | SAA1-36428, Annex 1 | Aeronautics | View Signed Agreement |

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| 911 | 36428 | | HYPERSONIC AIRCRAFT & ROCKET PROPULSION RESEARCH, DEVELOPMENT, AND COLLABORATION | 3/24/2023 | 3/24/2028 | Non-Reimbursable | \$0 | LaRC | SAA1-36428 | Aeronautics | View Signed Agreement |
| 912 | 36364 | Air Force Research Laboratory | Measurements of supersonic flow on an elliptic cone | 8/23/2022 | 10/23/2023 | Non-Reimbursable | \$4,298 | LaRC | IA1-36363, Annex 1 | Aeronautics | View Signed Agreement |
| 913 | 36363 | | COLLABORATIVE RESEARCH AND DEVELOPMENT IN THE AREA OF HIGH-SPEED LOW DISTURBANCE TUNNELS | 8/23/2022 | 8/23/2027 | Non-Reimbursable | \$0 | LaRC | IA1-36363 | Aeronautics | View Signed Agreement |
| 914 | 36331 | University of Arizona Applied Research Corporation | SPACE MIRROR APERTURE ASSEMBLY | 5/23/2022 | 1/23/2024 | Non-Reimbursable | \$54,458 | LaRC | SAA1-36330-ANNEX 1 | Space Technology | View Signed Agreement |
| 915 | | University of Arizona Applied Research Corporation | COLLABORATIVE RESEARCH, DEVELOPMENT, AND TESTING OPPORTUNITIES | 5/23/2022 | 5/23/2027 | Non-Reimbursable | \$0 | LaRC | SAA1-36330 | Space Technology | View Signed Agreement |
| 916 | 36327 | The Longbow Group, LLC | Evaluation of Prognostic Services for Autonomous Air Vehicles in Urban Environments | 4/29/2022 | 4/29/2025 | Non-Reimbursable | \$457,165 | LaRC | SAA1-34272, Annex 2 | Aeronautics | View Signed Agreement |
| 917 | 36302 | Newport News Public School District | Fabrication of Wood Shipping Crates and Reduced Gravity Gloveboxes | 3/22/2022 | 9/30/2026 | Non-Reimbursable | \$34,268 | LaRC | SAA1-36296, Annex 2 | Space Technology, Education and/or Public Engagement | View Signed Agreement |
| 918 | 36297 | Newport News Public School District | Fabrication of Storage Lockers for the International Space Station (ISS) | 3/17/2022 | 9/30/2026 | Non-Reimbursable | \$34,268 | LaRC | SAA1-36296, Annex 1 | Space Technology, Education and/or Public Engagement | View Signed Agreement |
| 919 | 36296 | | High Schools United with NASA to Create Hardware (HUNCH) Program | 3/17/2022 | 3/17/2027 | Non-Reimbursable | \$0 | LaRC | SAA1-36296 | Space Technology, Education and/or Public Engagement | View Signed Agreement |
| 920 | 36277 | The Boeing Company | SYSTEM-WIDE SAFETY RESEARCH | 5/24/2022 | 5/24/2026 | Non-Reimbursable | \$539,092 | LaRC | SAA1-33523, Annex 2 | Aeronautics | View Signed Agreement |

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| 921 | | | CUBESAT COMPOSITE BOOM TECHNOLOGY DEMONSTRATION PROJECT | 8/15/2022 | 9/30/2023 | Non-Reimbursable | \$44,156 | LaRC | SAA1-36204-Annex 1 | Space Technology | View Signed Agreement |
| 922 | | VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY | COLLABORATIVE RESEARCH, DEVELOPMENT, AND TESTING OPPORTUNITIES | 8/15/2022 | 8/15/2027 | Non-Reimbursable | \$0 | LaRC | SAA1-36204 | Space Technology | View Signed Agreement |
| 923 | 36148 | | Flight Testing of 3-D Imaging Flash Lidar Sensor for Safe Lunar Landing | 4/5/2022 | 1/15/2024 | Non-Reimbursable | \$177,233 | LaRC | SAA1-36148 | Space Technology | View Signed Agreement |
| 924 | 36144 | Sierra Nevada Corporation | Induced Loads and Environments Support for the ISS CRS2 Program | 2/18/2022 | 9/30/2024 | Reimbursable | \$60,890 | LaRC | Task Plan 005 | Space Technology | View Signed Agreement |
| 925 | 36136 | | Evaluation of Passive Lunar Dust Mitigation Materials in the PlanetVac Collection Chamber | 4/18/2022 | 3/31/2025 | Non-Reimbursable | \$25,777 | LaRC | SAA1-36136 | Space Technology | View Signed Agreement |
| 926 | 36115 | RAYTHEON COMPANY | BOLT and BOLT-Derivative Research Collaboration | 5/6/2022 | 9/30/2024 | Non-Reimbursable | \$737,395 | LaRC | SAA1-36114, Annex 1 | Aeronautics | View Signed Agreement |
| 927 | 36114 | | HYPERSONIC TECHNOLOGIES RESEARCH, DEVELOPMENT & TESTING | 5/6/2022 | 5/6/2027 | Non-Reimbursable | \$0 | LaRC | SAA1-36114 | Aeronautics | View Signed Agreement |
| 928 | 36063 | | EVALUATION OF LUNAR DUST SIMULANT ADHESION ON ADVANCED COMMERCIAL MATERIALS | 2/24/2022 | 2/24/2024 | Non-Reimbursable | \$55,913 | LaRC | SAA1-36063 | Space Technology | View Signed Agreement |
| 929 | 35879 | Textron Aviation, Inc. | Composite Aircraft Dynamic Material Response | 1/15/2022 | 1/15/2024 | Non-Reimbursable | \$119,278 | LaRC | SAA1-35879 | Aeronautics | View Signed Agreement |
| 930 | 35811 | Raytheon Technologies Intelligence and Space | ExoSPEAR Coherent Lidar Tracking System Upgrade | 12/17/2021 | 10/17/2023 | Reimbursable | \$68,112 | LaRC | SAA1-35810, Annex 1 | Space Technology | View Signed Agreement |

| ROW NO | . PAM ID NO. | PARTNER NAME | TITLE/PURPOSE | SIGNATURE DATE | EXPIRATION DATE | TYPE OF AGREEMENT | TOTAL ESTIMATED VALUE | CENTER | CENTER TRACKING NUMBER (IF ANY) | EXPECTED AGENCY BENEFIT(S) | LINK TO SIGNED AGREEMENT |
|--------|--------------|--|--|----------------|-----------------|-------------------|-----------------------|--------|------------------------------------|----------------------------|-----------------------------|
| 931 | 35810 | Raytheon Technologies Intelligence and Space | Optical Remote Sensing for Space Applications in Robotics and Surveillance | 12/17/2021 | 12/17/2026 | Reimbursable | \$0 | LaRC | SAA1-35810 | Space Technology | View Signed Agreement |
| 932 | 35777 | Psionic, LLC | Subject Matter Expertise Support for Commercialization of Navigation Doppler Lidar Generation 4 Technology | 12/13/2021 | 12/31/2023 | Reimbursable | \$65,467 | LaRC | SAA1-35776, Annex 1 | Space Technology | View Signed Agreement |
| 933 | 35776 | Psionic, LLC | Space Technology Commercialization for Measurement and Materials Applications | 12/13/2021 | 12/13/2026 | Reimbursable | \$0 | LaRC | SAA1-35776 | Space Technology | View Signed Agreement |
| 934 | 35643 | | Optimization, Multifunctionality, and Active Control of Deployable Composite Structures, Annex 1 | 1/28/2022 | 1/28/2026 | Non-Reimbursable | \$2,352,564 | LaRC | SAA1-35642, Annex 1 | Space Technology | View Signed Agreement |
| 935 | 35642 | NORTH CAROLINA STATE UNIVERSITY | Optimization, Multifunctionality, and Active Control of Deployable Composite Structures | 1/28/2022 | 1/28/2026 | Non-Reimbursable | \$0 | LaRC | SAA1-35642 | Space Technology | View Signed Agreement |
| 936 | 35630 | Northrop Grumman Corporation | Freejet Demonstrator | 3/30/2022 | 9/30/2023 | Reimbursable | \$1,391,575 | LaRC | SAA2-403514, Annex 3 | Aeronautics | View Signed Agreement |
| 937 | 35566 | University of Texas at El Paso | Evaluation of Additive Manufacturing Print Quality via Standardized Test Artifact | 1/20/2022 | 1/20/2027 | Non-Reimbursable | \$138,810 | LaRC | SAA1-35566 | Aeronautics | View Signed Agreement |
| 938 | 35421 | | Sustainable and Scalable Advanced Air Mobility (AAM) Operations | 12/3/2021 | 1/4/2026 | Non-Reimbursable | \$752,758 | LaRC | 31919, Annex 2 | Aeronautics | View Signed Agreement |
| 939 | 35418 | Blue Origin, LLC | New Glenn Launch Vehicle Flight Dynamics Assessment | 12/10/2021 | 9/30/2023 | Reimbursable | \$270,505 | LaRC | SAA2-403403, Annex 5 | Space Technology | View Signed Agreement |
| 940 | 35362 | The Boeing Company | ecoDemonstrator Emissions Testing | 5/4/2022 | 5/4/2025 | Non-Reimbursable | \$509,681 | LaRC | SAA1-35361, Annex 1 | Aeronautics | View Signed Agreement |

| ROW NO | PAM ID NO. | PARTNER NAME | TITLE/PURPOSE | SIGNATURE DATE | EXPIRATION DATE | TYPE OF AGREEMENT | TOTAL ESTIMATED VALUE | CENTER | CENTER TRACKING NUMBER (IF ANY) | EXPECTED AGENCY BENEFIT(S) | LINK TO SIGNED AGREEMENT |
|--------|------------|---|--|----------------|-----------------|-------------------|-----------------------|--------|------------------------------------|---|-----------------------------|
| 941 | 35361 | The Boeing Company | Aerospace Research Development | 5/4/2022 | 5/4/2027 | Non-Reimbursable | \$0 | LaRC | SAA1-35361 | Aeronautics | View Signed Agreement |
| 942 | 35097 | Old Dominion University | Annex to Collaboration Research, Development, and Testing | 8/19/2021 | 12/31/2024 | Non-Reimbursable | \$9,027 | LaRC | SAA1-34376, Annex 4 | Aeronautics | View Signed Agreement |
| 943 | 35070 | Varda Space Industries | EDL Analysis Support | 8/16/2021 | 8/16/2024 | Reimbursable | \$139,290 | LaRC | SAA1-35070 | Space Technology | View Signed Agreement |
| 944 | 35035 | National Institute of Standards and Technology (NIST) | Verification of Software and Autonomous Systems | 9/30/2021 | 9/30/2026 | Non-Reimbursable | \$68,836 | LaRC | IA1-35035 | Aeronautics | View Signed Agreement |
| 945 | 34765 | TEXAS A&M UNIVERSITY | Hypervelocity impact (HVI), and High Velocity Microparticle Impact (HVMI) testing | 1/18/2022 | 1/18/2024 | Non-Reimbursable | \$385,882 | LaRC | SAA1-34764, Annex 1 | Aeronautics | View Signed Agreement |
| 946 | 34764 | TEXAS A&M UNIVERSITY | COLLABRITIVE RESEARCH AND DEVELOPMENT IN THE AREA OF HYPERSONIC TECHNOLOGIES | 1/18/2022 | 1/18/2027 | Non-Reimbursable | \$0 | LaRC | SAA1-34764 | Aeronautics | View Signed Agreement |
| 947 | 34717 | | Self-Erectable Lunar Tower for Instrument (SELTI) Development | 7/6/2021 | 7/6/2024 | Non-Reimbursable | \$694,498 | LaRC | SAA1-34717 | Human Exploration and Operations, Space Technology | View Signed Agreement |
| 948 | 34377 | Old Dominion University | Visual Attention Allocation and Trust in Human-Autonomy Teaming | 5/3/2021 | 5/3/2026 | Non-Reimbursable | \$527,702 | LaRC | SAA1-34376, Annex 1 | Aeronautics | View Signed Agreement |
| 949 | 34376 | Old Dominion University | Collaboration Research, Development, and Testing | 5/3/2021 | 5/3/2026 | Non-Reimbursable | \$0 | LaRC | SAA1-34376 | Aeronautics | View Signed Agreement |
| 950 | 34288 | | Investigation of Bio-Inspired Material Surfaces for Dust Mitigation in Space Applications | 4/5/2021 | 4/5/2024 | Non-Reimbursable | \$16,910 | LaRC | SAA1-34287, Annex 1 | Space Technology, Education and/or Public Engagement, Technology Transfer | View Signed Agreement |

| ROW N | D. PAM ID NO. | PARTNER NAME | TITLE/PURPOSE | SIGNATURE DATE | EXPIRATION DATE | TYPE OF AGREEMENT | TOTAL ESTIMATED VALUE | CENTER | CENTER TRACKING NUMBER (IF ANY) | EXPECTED AGENCY BENEFIT(S) | LINK TO SIGNED AGREEMENT |
|-------|---------------|--|---|----------------|-----------------|-------------------|--------------------------|--------|------------------------------------|---|-----------------------------|
| 951 | 34287 | Arizona State University | Collaborative Aerospace Research and Outreach | 4/5/2021 | 4/5/2026 | Non-Reimbursable | \$0 | LaRC | SAA1-34287 | Space Technology, Education and/or Public Engagement, Technology Transfer | View Signed Agreement |
| 952 | 34272 | The Longbow Group, LLC | Unmanned Systems Collaborative testing at Fort Monroe | 4/12/2021 | 4/12/2026 | Non-Reimbursable | \$0 | LaRC | SAA1-34272 | Aeronautics | View Signed Agreement |
| 953 | 34241 | MATERIALS RESEARCH AND DESIGN, INC | Carbon/Carbon Aeroshell Testing to Delay Hypersonic Boundary-Layer Transition | 2/9/2022 | 12/31/2025 | Non-Reimbursable | \$245,701 | LaRC | SAA1-34241 | Aeronautics | View Signed Agreement |
| 954 | 34215 | Stevens Institute of Technology | Boundary Layer Measurements with Advanced Diagnostics | 5/4/2021 | 9/30/2025 | Non-Reimbursable | \$302,727 | LaRC | SAA1-34215 | Aeronautics | View Signed Agreement |
| 955 | 33681 | BNNT, LLC | annex to DEVELOPMENT AND OPTIMIZATION OF BORON NITRIDE NANOTUBES | 10/1/2021 | 8/21/2024 | Non-Reimbursable | \$94,999 | LaRC | SAA1-30606, Annex 2 | Space Technology | View Signed Agreement |
| 956 | 33586 | NAVAL SUBMARINE MEDICAL RESEARCH LABORATORY | RESEARCH ON WARFIGHTER PERFORMANCE | 2/4/2022 | 2/4/2027 | Non-Reimbursable | \$24,546 | LaRC | IA1-33586 | Aeronautics | View Signed Agreement |
| 957 | 33524 | The Boeing Company | Integration, Demonstration and Exploration of Autonomous Systems | 2/7/2022 | 2/7/2025 | Non-Reimbursable | \$215,012 | LaRC | SAA1-33523, Annex 1 | Aeronautics | View Signed Agreement |
| 958 | 33523 | The Boeing Company | Aerospace Research Technology, Development, Testing and Evaluation | 2/7/2022 | 2/7/2027 | Non-Reimbursable | \$0 | LaRC | SAA1-33523 | Aeronautics | View Signed Agreement |
| 959 | 33356 | OptoKnowledge Systems, Inc. | HYMETS TESTING USING REMOTE SPECTRAL SENSORS | 1/4/2021 | 9/30/2024 | Reimbursable | \$35,106 | LaRC | SAA1-33356 | Aeronautics | View Signed Agreement |
| 960 | 33328 | Hexcel Corporation | Investigation of Manufacturing Techniques for Novel Acoustic Liners | 9/15/2020 | 9/15/2025 | Non-Reimbursable | \$0 | LaRC | SAA1-33328 | Aeronautics | View Signed Agreement |

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|-----|----------------|---------------------------------|--|----------------|-----------------|-------------------|--------------------------|--------|------------------------------------|------------------------------------|-----------------------------|
| 961 | 33280 | Federal Aviation Administration | USING THE OVERARCHING PROPERTIES IN NOVEL EXAMPLES - PHASE II | 11/20/2020 | 11/10/2023 | Non-Reimbursable | \$3,557,295 | LaRC | SAA1-30149, Annex 3 | Aeronautics | View Signed Agreement |
| 962 | 33199 | SkyCorp, Inc. | Skycorp Orbital Logistics Vehicle | 3/1/2021 | 3/1/2026 | Reimbursable | \$0 | LaRC | SAA1-33199 | Space Technology | View Signed Agreement |
| 963 | 32988 | Texas A&M University | System-Wide Safety Research in Advanced Air Mobility (AAM) | 3/16/2021 | 3/16/2026 | Non-Reimbursable | \$328,412 | LaRC | SAA1-32987, Annex 1 | Aeronautics | View Signed Agreement |
| 964 | 32987 | Texas A&M University | Advanced Air Mobility Research and Testing | 3/16/2021 | 3/16/2026 | Non-Reimbursable | \$0 | LaRC | SAA1-32987 | Aeronautics | View Signed Agreement |
| 965 | 32809 | IKONICS Corporation | Investigation of Liner Facesheet Manufacturing Innovations | 8/13/2020 | 8/13/2025 | Non-Reimbursable | \$0 | LaRC | SAA1-32809 | Aeronautics | View Signed Agreement |
| 966 | 32792 | Radford University | Collaboration between NASA and Radford University's Modeling and Simulation Institute | 8/3/2020 | 8/3/2025 | Non-Reimbursable | \$0 | LaRC | SAA1-32792 | Education and/or Public Engagement | View Signed Agreement |
| 967 | 32735 | National Institute of Aerospace | Transition Prediction and Control for Blunt Hypersonic Configurations with Hemispherical and Ogival Nosetips | 7/22/2020 | 4/30/2024 | Reimbursable | \$12,630 | LaRC | SAA1-31764, ANNEX 2 | Aeronautics | View Signed Agreement |
| 968 | 32707 | Lockheed Martin | Wind Tunnel Testing | 4/12/2021 | 4/12/2026 | Reimbursable | \$0 | LaRC | SAA1-32707 | Aeronautics | View Signed Agreement |
| 969 | 32700 | Worcester Polytechnic Institute | Research Collaboration between Worcester Polytechnic Institute and NASA Langley Research Center | 7/20/2020 | 7/20/2025 | Non-Reimbursable | \$65,084 | LaRC | SAA1-32700 | Aeronautics | View Signed Agreement |
| 970 | 32663 | Mississippi State University | Stitched/Resin-Infused Composites Material Characterization and Sub-Component Development | 10/2/2020 | 2/22/2024 | Non-Reimbursable | \$197,631 | LaRC | SAA1-32662, Annex 1 | Aeronautics | View Signed Agreement |

| ROW NO | D. PAM ID NO. | PARTNER NAME | TITLE/PURPOSE | SIGNATURE DATE | EXPIRATION DATE | TYPE OF AGREEMENT | TOTAL ESTIMATED VALUE | CENTER | CENTER TRACKING NUMBER (IF ANY) | EXPECTED AGENCY BENEFIT(S) | LINK TO SIGNED AGREEMENT |
|--------|---------------|--|--|----------------|-----------------|-------------------|--------------------------|--------|------------------------------------|----------------------------|-----------------------------|
| 971 | 32662 | Mississippi State University | Cooperative Stitched Composite Structures Development and Characterization | 10/2/2020 | 10/2/2025 | Non-Reimbursable | \$0 | LaRC | SAA1-32662 | Aeronautics | View Signed Agreement |
| 972 | 32651 | JOHNS HOPKINS UNIVERSITY / APPLIED PHYSICS LAB | Dynamic Balance Proof of Concept Study | 9/3/2020 | 9/30/2024 | Non-Reimbursable | \$270,898 | LaRC | SAA1-32651 | Aeronautics | View Signed Agreement |
| 973 | 32643 | University of California San Diego | COLLABORATIVE AEROSPACE RESEARCH AND OUTREACH | 11/17/2020 | 11/17/2025 | Non-Reimbursable | \$0 | LaRC | SAA1-32643 | Space Technology | View Signed Agreement |
| 974 | 32601 | Purdue University | COLLABORATIVE AEROSPACE RESEARCH AND OUTREACH | 7/16/2020 | 7/16/2025 | Non-Reimbursable | \$0 | LaRC | SAA1-32601 | Space Technology | View Signed Agreement |
| 975 | 32576 | Carnegie Mellon University | Carnegie Melon University (CMU) Collaboration with NASA LaRC on the Research and Development of the Qualification of Additively Manufactured Parts | 7/13/2020 | 7/13/2025 | Non-Reimbursable | \$675,580 | LaRC | SAA1-32576 | Aeronautics | View Signed Agreement |
| 976 | 32569 | US Army Combat Capabilities Development Command | The Re-establishment of Vertical Lift Research Centers of Excellence | 5/3/2021 | 5/3/2026 | Non-Reimbursable | \$331,608 | LaRC | IA1-32569 | Aeronautics | View Signed Agreement |
| 977 | 32508 | UNIVERSITY OF NORTH DAKOTA | Investigation of Novel Wear-Resistant Materials for Space Applications | 7/24/2020 | 7/24/2024 | Non-Reimbursable | \$39,258 | LaRC | SAA1-32507-Annex 1 | Space Technology | View Signed Agreement |
| 978 | 32507 | UNIVERSITY OF NORTH DAKOTA | Collaborative Aerospace and Research | 7/24/2020 | 7/24/2025 | Non-Reimbursable | \$0 | LaRC | SAA1-32507 | Space Technology | View Signed Agreement |
| 979 | 32449 | L3HARRIS TECHNOLOGIES, INC. | Aerospace Research Development Testing and Evaluation Support | 12/15/2020 | 12/15/2025 | Reimbursable | \$0 | LaRC | SAA1-32449 | Aeronautics, Science | View Signed Agreement |
| 980 | 32320 | THE UNIVERSITY OF TEXAS AT SAN ANTONIO | Shock Wave Boundary Layer Interactions | 11/19/2020 | 9/30/2024 | Non-Reimbursable | \$328,711 | LaRC | SAA1-32320 | Aeronautics | View Signed Agreement |

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| 981 | | THE VIRGINIA AIR AND SPACE CENTER AND CITY OF HAMPTON | A Joint Public Lecture Series Entitled The Sigma Series | 7/30/2020 | 7/30/2025 | Non-Reimbursable | \$105,598 | LaRC | SAA1-32298 | Education and/or Public Engagement | View Signed Agreement |
| 982 | 32242 | | Mentoring for Commercializing Emerging Technologies Studies | 8/10/2021 | 8/10/2026 | Non-Reimbursable | \$9,313 | LaRC | SAA1-32242 | Technology Transfer | View Signed Agreement |
| 983 | | VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY | Air Quality Monitoring Site | 8/13/2020 | 8/13/2025 | Non-Reimbursable | \$47,380 | LaRC | IA1-32166 | Science | View Signed Agreement |
| 984 | 32088 | INTEL CORPORATION | Development of high thermal conductivity material for next generation processors | 8/17/2021 | 8/17/2026 | Reimbursable | \$0 | LaRC | SAA1-32088 | Space Technology | View Signed Agreement |
| 985 | | | Composites NDE standards library and database administration | 4/24/2020 | 4/24/2025 | Non-Reimbursable | \$23,548 | LaRC | SAA1-32044 | Aeronautics | View Signed Agreement |
| 986 | 32036 | Hermeus Corporation | Collaboration for Aerospace Research, Development and Testing | 11/9/2020 | 11/9/2025 | Non-Reimbursable | \$0 | LaRC | SAA1-32036 | Aeronautics | View Signed Agreement |
| 987 | 31974 | TEXAS A&M UNIVERSITY | Boundary Layer Turbulence (BOLT) Flight II Experiments | 4/23/2021 | 9/30/2024 | Non-Reimbursable | \$256,604 | LaRC | SAA1-31974 | Aeronautics | View Signed Agreement |
| 988 | 31870 | Federal Aviation Administration | Advanced Additive Manufacturing Technologies | 5/7/2020 | 5/7/2025 | Non-Reimbursable | \$0 | LaRC | IA1-31870 | Aeronautics | View Signed Agreement |
| 989 | 31765 | | Novel Concepts for Transition Delay in Hypersonic Boundary Layers Support | 7/17/2020 | 4/30/2024 | Reimbursable | \$12,630 | LaRC | SAA1-31764, Annex 1 | Aeronautics | View Signed Agreement |
| 990 | 31764 | | RESEARCH, EDUCATIONAL OUTREACH, AND TESTING ACTIVITIES | 7/17/2020 | 7/17/2025 | Reimbursable | \$0 | LaRC | SAA1-31764 | Aeronautics, Science, Space Technology | View Signed Agreement |

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|--------|------------|--|---|----------------|-----------------|-------------------|-----------------------|--------|------------------------------------|---|-----------------------------|
| 991 | 31663 | THE SPACESHIP COMPANY | Collaboration to Commercialize High Mach Aircraft | 3/20/2020 | 3/20/2025 | Non-Reimbursable | \$0 | LaRC | SAA1-31663 | Aeronautics | View Signed Agreement |
| 992 | | GENERAL ATOMICS AERONAUTICAL SYSTEMS, INC. | Evaluation of Acoustic Liners for Fan Noise Reduction | 10/9/2019 | 10/9/2024 | Reimbursable | \$0 | LaRC | SAA1-31140 | Aeronautics | View Signed Agreement |
| 993 | 30831 | U.S. Department of Defense | STATISTICAL ENGINEERING INFORMATION EXCHANGE | 9/22/2021 | 9/22/2026 | Non-Reimbursable | \$292,435 | LaRC | IA1-30831 | Institutional and Mission Support | View Signed Agreement |
| 994 | 30707 | MOOG, INC | Autonomous Flight Control Development for Electric VTOL Vehicles | 1/18/2020 | 12/31/2023 | Non-Reimbursable | \$124,163 | LaRC | SAA1-30706, Annex 1 | Aeronautics | View Signed Agreement |
| 995 | 30706 | | AEROSPACE RESEARCH TECHNOLOGY AND DEVELOPMENT | 1/18/2020 | 1/18/2025 | Non-Reimbursable | \$0 | LaRC | SAA1-30706 | Aeronautics | View Signed Agreement |
| 996 | 30606 | | DEVELOPMENT AND OPTIMIZATION OF BORON NITRIDE NANOTUBES | 8/21/2019 | 8/21/2024 | Non-Reimbursable | \$0 | LaRC | SAA1-30606 | Space Technology | View Signed Agreement |
| 997 | 29851 | Exothermics, Inc. | Thermochemical Response of UHT Hypersonic Leading- Edge Candidates | 3/26/2019 | 9/30/2024 | Reimbursable | \$89,262 | LaRC | SAA1-29851 | Aeronautics | View Signed Agreement |
| 998 | 29424 | Williamsburg-James City County Public Schools | High School Students United With NASA to Create Hardware Program | 2/6/2019 | 2/6/2024 | Non-Reimbursable | \$0 | LaRC | SAA1-29424 | Science, Space Technology, Education and/or Public Engagement | View Signed Agreement |
| 999 | 29215 | Durana i mivareitv | Deployable Composite Sail Structure Materials Modeling Research | 2/22/2019 | 9/30/2023 | Non-Reimbursable | \$15,826 | LaRC | SAA1-29213, Annex 2 | Space Technology | View Signed Agreement |
| 1000 | 29213 | Purdue University | Deployable Composite Solar Sail Structural Research | 2/21/2019 | 2/21/2024 | Non-Reimbursable | \$0 | LaRC | SAA1-29213 | Space Technology | View Signed Agreement |

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| 1001 | 28789 | Wichita State University | Acoustic and Aero Liner Research | 10/1/2018 | 10/1/2023 | Non-Reimbursable | \$0 | LaRC | SAA1-28789 | Aeronautics, Education and/or Public Engagement | View Signed Agreement |
| 1002 | 39498 | PSIONIC, LLC | Validating No-Light Lunar Landing Technology | 7/20/2023 | 7/19/2028 | Funded | \$3,145,500 | LaRC | FSAA-39498 | Space Technology | View Signed Agreement |
| 1003 | 39500 | Freedom Photonics, LLC | Highly Efficient Watt-Class Direct Diode LIDAR for Remote Sensing | 7/20/2023 | 7/19/2028 | Funded | \$1,556,378 | LaRC | FSAA-39500 | Space Technology | View Signed Agreement |
| 1004 | 39501 | PROTOINNOVATIONS, LLC | Lunar Surface Mobility Coordinator Software | 7/20/2023 | 7/20/2028 | Funded | \$6,174,917 | LaRC | FSAA-39501 | Space Technology | View Signed Agreement |
| 1005 | 39502 | Zeno Power Systems, LLC | Harmonia: A Universal Americium-241 Radioisotope Power Supply for Artemis | 7/20/2023 | 7/20/2028 | Funded | \$15,000,010 | LaRC | FSAA-39502 | Space Technology | View Signed Agreement |
| 1006 | 39657 | Maxar Space LLC | Demand Services for Space Environmental Effects Testing | 9/29/2023 | 9/29/2024 | Reimbursable | \$259,552 | MSFC | SAA8-2339656.1 | Institutional and Mission Support | View Signed Agreement |
| 1007 | 39656 | Maxar Space LLC | Space Environmental Effects Testing | 9/29/2023 | 9/29/2028 | Reimbursable | \$0 | MSFC | SAA8-2339656 | Institutional and Mission Support | View Signed Agreement |
| 1008 | 39619 | UNIVERSITY OF PITTSBURGH | Fireball Network Station at Allegheny Observatory | 9/21/2023 | 9/21/2028 | Non-Reimbursable | \$1,618 | MSFC | SAA8-2339619 | Science | View Signed Agreement |
| 1009 | 39496 | United Launch Alliance | ULA PAF Structural Test _ FID | 9/28/2023 | 9/28/2024 | Reimbursable | \$5,649,109 | MSFC | SAA8-1726580.18 | Institutional and Mission Support | View Signed Agreement |
| 1010 | 39470 | UNITED LAUNCH ALLIANCE, LLC | ULA Vulcan Engine Reuse Scale (VERS) Hypersonic Inflatable Aerodynamic Decelerator (HIAD) | 7/20/2023 | 7/20/2028 | Funded | \$25,000,000 | MSFC | 39470 | Space Technology | View Signed Agreement |

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| 1011 | 39469 | LOCKHEED MARTIN | Joining Demonstrations In-Space (JOINS) | 7/20/2023 | 7/20/2028 | Funded | \$9,053,467 | MSFC | 39469 | Space Technology | View Signed Agreement |
| 1012 | 39468 | Redwire Space Inc | Infrastructure Manufacturing with Lunar Regolith - Mason | 7/20/2023 | 7/20/2028 | Funded | \$12,910,000 | MSFC | 39468 | Space Technology | View Signed Agreement |
| 1013 | 39440 | ThinkOrbital Inc. | ANALYSIS AND MODELING OF IN-SPACE WELDING | 9/27/2023 | 9/27/2025 | Non-Reimbursable | \$12,001 | MSFC | SAA8-2339439.1 | Space Technology, Institutional and Mission Support | View Signed Agreement |
| 1014 | 39439 | | SPACE EXPLORATION TECHNOLOGY DEVELOPMENT FOR IN-SPACE WELDING | 9/27/2023 | 9/27/2028 | Non-Reimbursable | \$0 | MSFC | SAA8-2339439 | Space Technology, Institutional and Mission Support | View Signed Agreement |
| 1015 | 39384 | THE UNIVERSITY OF TENNESSEE SPACE INSTITUTE | Fireball Network Station at UTSI | 8/31/2023 | 8/31/2028 | Non-Reimbursable | \$1,486 | MSFC | SAA8-2339384 | Education and/or Public Engagement | View Signed Agreement |
| 1016 | 39277 | | Design and Manufacturing Review for Rocket Engine Components | 9/14/2023 | 9/14/2026 | Reimbursable | \$59,000 | MSFC | SAA8-2339276.1 | Science | View Signed Agreement |
| 1017 | 39276 | Sierra Space | Rocket Engine Development and Test | 9/14/2023 | 9/14/2028 | Reimbursable | \$0 | MSFC | SAA8-2339276 | Science | View Signed Agreement |
| 1018 | 39225 | United Launch Alliance | ULA Centaur V STA1 Stand Restoration | 9/22/2023 | 9/22/2024 | Reimbursable | \$1,701,762 | MSFC | SAA8-1726580.17 | Institutional and Mission Support | View Signed Agreement |
| 1019 | 39223 | | United Launch Alliance (ULA) Cryogenic Pressure Cycling Test -Centaur V Structural Test Article STA 1.5 | 8/2/2023 | 8/2/2024 | Reimbursable | \$7,483,597 | MSFC | SAA8-1726580.15 | Institutional and Mission Support | View Signed Agreement |
| 1020 | 39183 | | DISASSEMBLY AND EVALUATION OF CST100 COMPONENTS | 8/22/2023 | 2/22/2024 | Reimbursable | \$45,474 | MSFC | CCtCap8-2339183 | Human Exploration and Operations | View Signed Agreement |

| ROW N | D. PAM ID NO. | PARTNER NAME | TITLE/PURPOSE | SIGNATURE DATE | EXPIRATION DATE | TYPE OF AGREEMENT | TOTAL ESTIMATED VALUE | CENTER | CENTER TRACKING NUMBER (IF ANY) | EXPECTED AGENCY BENEFIT(S) | LINK TO SIGNED AGREEMENT |
|-------|---------------|---|--|----------------|-----------------|-------------------|--------------------------|--------|------------------------------------|---|-----------------------------|
| 1021 | 39175 | Huntsville City Football Club | Space Exploration Education and Engagement | 9/20/2023 | 9/20/2028 | Non-Reimbursable | \$0 | MSFC | SAA8-2339175 | Education and/or Public Engagement | View Signed Agreement |
| 1022 | 39171 | OBERLIN COLLEGE AND CONSERVATORY | Fireball Network Station at Oberlin | 9/1/2023 | 9/1/2028 | Non-Reimbursable | \$2,402 | MSFC | SAA8-2339171 | Education and/or Public Engagement | View Signed Agreement |
| 1023 | 39159 | BLUE ORIGIN, LLC | Annex for BE-3 Waterflow Testing | 7/21/2023 | 7/21/2024 | Reimbursable | \$588,023 | MSFC | SAA8-1931648.3 | Science | View Signed Agreement |
| 1024 | 38978 | International Business Machines (IBM) Corporation | annex to the Discovery, Access and Use of Large Science Datasets | 7/12/2023 | 7/12/2025 | Non-Reimbursable | \$844,194 | MSFC | SAA8-2233097.2 | Science | View Signed Agreement |
| 1025 | 38965 | U.S. Space & Rocket Center | annex to Build a scaled model of the HLS Starship and funded by the U.S. Space and Rocket Center | 7/5/2023 | 7/5/2024 | Reimbursable | \$10,000 | MSFC | SAA8-2338251.3 | Education and/or Public Engagement | View Signed Agreement |
| 1026 | 38951 | ST. BERNARD SHERIFFS DEPARTMENT | St. Bernard Sheriff's Department | 6/12/2023 | 6/12/2028 | Non-Reimbursable | \$6,754 | MSFC | SAA8-2338951 | Human Exploration and Operations | View Signed Agreement |
| 1027 | 38911 | Brigham Young University | Study of SLS Liftoff Trajectories to Estimate Acoustic Parameters | 6/30/2023 | 6/30/2024 | Non-Reimbursable | \$22,823 | MSFC | SAA8-2338911 | Human Exploration and Operations | View Signed Agreement |
| 1028 | 38861 | Torre Space and Power Systems, LLC | Plasma Chamber Testing of MHD Electrical Generator Test Articles | 5/26/2023 | 5/26/2024 | Reimbursable | \$54,404 | MSFC | SAA8-2338860.1 | Human Exploration and Operations, Space Technology, Institutional and Mission Support | View Signed Agreement |
| 1029 | 38860 | Torre Space and Power Systems, LLC | Space Environment Recreation and Plasma Generation | 5/26/2023 | 5/26/2028 | Reimbursable | \$0 | MSFC | SAA8-2338860 | Human Exploration and Operations, Space Technology, Institutional and Mission Support | View Signed Agreement |
| 1030 | 38859 | geCKo Materials, PBC | Space Environmental Effects Testing of geCKo Materials Dry Adhesive | 5/26/2023 | 5/26/2024 | Reimbursable | \$70,419 | MSFC | SAA8-2338858.1 | Institutional and Mission Support | View Signed Agreement |

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| 1031 | 38858 | geCKo Materials, PBC | Space Environmental Effects and Materials Testing | 5/26/2023 | 5/26/2028 | Reimbursable | \$0 | MSFC | SAA8-2338858 | Institutional and Mission Support | View Signed Agreement |
| 1032 | | NORTHROP GRUMMAN SYSTEMS CORPORATION | SMART DEMO SRTM | 7/17/2023 | 7/17/2024 | Reimbursable | \$119,367 | MSFC | SAA8-2338831.1 | Institutional and Mission Support | View Signed Agreement |
| 1033 | 38831 | NORTHROP GRUMMAN SYSTEMS CORPORATION | The 2023 SMART DEMO SRTM | 7/17/2023 | 7/17/2028 | Reimbursable | \$0 | MSFC | SAA8-2338831 | Institutional and Mission Support | View Signed Agreement |
| 1034 | 38821 | United Launch Alliance | ULA Centaur V STA 2 Instrumentation | 5/2/2023 | 5/2/2024 | Reimbursable | \$828,946 | MSFC | SAA8-1726580.14 | Aeronautics | View Signed Agreement |
| 1035 | 38815 | NeXolve | Radiation and UV Test on NeXolve Materials | 6/22/2023 | 6/22/2024 | Reimbursable | \$50,553 | MSFC | SAA8-2338815 | Space Technology | View Signed Agreement |
| 1036 | 38779 | HIRAM COLLEGE | Fireball Network Station at Hiram College | 5/24/2023 | 5/24/2028 | Non-Reimbursable | \$1,969 | MSFC | SAA8-2338779 | Education and/or Public Engagement | View Signed Agreement |
| 1037 | 38768 | United Launch Alliance | Centaur V STA1 Post-Test | 5/5/2023 | 5/5/2024 | Reimbursable | \$5,373,897 | MSFC | SAA8-1726580.13 | Aeronautics | View Signed Agreement |
| 1038 | 38747 | Above:Space Development Corporation | NEW Rotating GNC Testbed Characterization Via Air-Bearing | 5/18/2023 | 11/18/2023 | Reimbursable | \$7,674 | MSFC | SAA8-2338746.1 | Human Exploration and Operations | View Signed Agreement |
| 1039 | 38746 | Above:Space Development Corporation | Development of Commercial Space Station Technology | 5/18/2023 | 5/18/2028 | Reimbursable | \$0 | MSFC | SAA8-2338746 | Human Exploration and Operations | View Signed Agreement |
| 1040 | 38692 | U.S SPACE AND ROCKET CENTER | Annex to ALABAMA SPACE SCIENCE EXHIBIT COMMISSION | 4/18/2023 | 4/18/2024 | Non-Reimbursable | \$93,464 | MSFC | SAA8-2031097.3 | Human Exploration and Operations, Education and/or Public Engagement | View Signed Agreement |

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| 1041 | 38629 | LOCKHEED MARTIN | Photogrammetry Support for Subscale Burst Test | 5/24/2023 | 5/24/2024 | Reimbursable | \$82,887 | MSFC | SAA8-2134592.9 | Human Exploration and Operations | View Signed Agreement |
| 1042 | 38547 | BLUE ORIGIN, LLC | Hot Hydrogen Testing Activities in CFEET Furnace | 4/14/2023 | 4/17/2024 | Reimbursable | \$35,827 | MSFC | SAA-EA-20-29343.37 | Institutional and Mission Support | View Signed Agreement |
| 1043 | 38535 | NANORACKS, LLC | Consultation on Lunar Communication Relay Satellite Testing | 5/16/2023 | 5/16/2024 | Reimbursable | \$49,953 | MSFC | SAA8-2338534.1 | Human Exploration and Operations, Space Technology | View Signed Agreement |
| 1044 | 38534 | NANORACKS, LLC | Deep Space Transportation Technology Development | 5/16/2023 | 5/16/2028 | Reimbursable | \$0 | MSFC | SAA8-2338534 | Human Exploration and Operations, Science | View Signed Agreement |
| 1045 | 38491 | NEW CINGULAR WIRELESS PCS, LLC | CELLULAR SERVICE MICRO-TOWERS SUPPORTING FIRSTNET | 8/15/2023 | 8/15/2028 | Reimbursable | \$2,576 | MSFC | SAA8-2338491 | Institutional and Mission Support | View Signed Agreement |
| 1046 | 38490 | Plasma Processes, Inc. | One Newton Thruster Valve Fabrication, Assembly, and Qualification□ | 6/27/2023 | 4/27/2024 | Reimbursable | \$557,992 | MSFC | SAA8-2237691.2 | Human Exploration and Operations | View Signed Agreement |
| 1047 | 38454 | Onyx Aerospace | Bi-Propellant Throttling Cavitating Venturi Valve Design □ | 3/10/2023 | 12/1/2023 | Reimbursable | \$153,350 | MSFC | SAA8-2135668.3 | Science | View Signed Agreement |
| 1048 | 38441 | Northeast Arkansas Career and Technical Center | TO PRODUCE HARDWARE OR OTHER USEFUL PRODUCTS UNDER THE HIGH SCHOOLS UNITED WITH NASA TO CREATE HARDWARE (HUNCH) PROGRAM | 4/10/2023 | 4/10/2028 | Non-Reimbursable | \$80,216 | MSFC | SAA8-2338441 | Human Exploration and Operations | View Signed Agreement |
| 1049 | 38364 | Raytheon Technologies | Raytheon Wind Tunnel HAWK Testing | 6/9/2023 | 6/9/2024 | Reimbursable | \$310,169 | MSFC | SAA8-2236871.2 | Institutional and Mission Support | View Signed Agreement |
| 1050 | 38342 | RELATIVITY SPACE, INC. | annex to Rocket Engine Development and Test | 5/19/2023 | 5/19/2025 | Reimbursable | \$189,115 | MSFC | SAA8-2033020.3 | Space Technology, Institutional and Mission Support | View Signed Agreement |

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|--------|---------------|--|---|----------------|-----------------|-------------------|--------------------------|--------|------------------------------------|--|-----------------------------|
| 1051 | 38290 | Iowa State University | Annex to Microwave Nondestructive Evaluation (NDE) Studies Titled: MICROWAVE IMAGING OF CEMENTITIOUS LUNAR SAMPLE | 3/3/2023 | 3/3/2024 | Non-Reimbursable | \$1,648 | MSFC | SAA8-2134143.2 | Education and/or Public Engagement, Technology Transfer | View Signed Agreement |
| 1052 | 38276 | Spirit Aero Systems | Annex to Collaboration in Aeronautical Vehicle Manufacturing | 7/18/2023 | 7/18/2024 | Reimbursable | \$20,000 | MSFC | SAA8-1828434.4 | Institutional and Mission Support | View Signed Agreement |
| 1053 | 38252 | U.S. Space & Rocket Center | F-1 Rocket Engine Move at the U.S. Space and Rocket Center□ | 3/29/2023 | 1/29/2024 | Reimbursable | \$30,299 | MSFC | SAA8-2338251.1 | Science | View Signed Agreement |
| 1054 | 38251 | U.S. Space & Rocket Center | F-1 Rocket Engine Move at the U.S. Space & Rocket Center | 3/29/2023 | 3/29/2028 | Reimbursable | \$0 | MSFC | SAA8-2338251 | | View Signed Agreement |
| 1055 | 38185 | ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY | Fireball Network Station at Kitt Peak National Observatory (KPNO) | 9/28/2023 | 9/28/2028 | Non-Reimbursable | \$2,201 | MSFC | SAA8-2338185 | Science, Education and/or Public Engagement, Institutional and Mission Support | View Signed Agreement |
| 1056 | | SHELL INTERNATIONAL EXPLORATION AND PRODUCTION, INC | Foam Insulation Test Specimen Preparation and Performance of Testing | 4/24/2023 | 4/24/2024 | Reimbursable | \$119,500 | MSFC | SAA8-2338064.1 | Institutional and Mission Support | View Signed Agreement |
| 1057 | | SHELL INTERNATIONAL EXPLORATION AND PRODUCTION, INC | DEVELOPMENT AND CHARACTERIZATION OF LIQUID HYDROGEN STORAGE, TRANSFER, AND TRANSPORTATION TECHNOLOGIES | 4/19/2023 | 4/19/2028 | Reimbursable | \$0 | MSFC | SAA8-2338064 | Institutional and Mission Support | View Signed Agreement |
| 1058 | 38020 | OffWorld, Incorporated | Payload Integration Activities for GOAL Spacecraft; SLS Secondary Payload | 7/26/2023 | 12/26/2026 | Non-Reimbursable | \$448,493 | MSFC | SAA8-2338020 | Space Technology, Technology Transfer, Institutional and Mission Support | View Signed Agreement |
| 1059 | 37932 | BLUE ORIGIN, LLC | Engineering Analysis and Testing | 1/18/2023 | 1/18/2025 | Reimbursable | \$500,000 | MSFC | SAA8-2237932.28 | Institutional and Mission Support | View Signed Agreement |
| 1060 | 37919 | BWXT Advanced Technologies, LLC. | BWXT Coating Test for N2 Flow | 5/23/2023 | 5/23/2028 | Reimbursable | \$0 | MSFC | SAA8-2337919 | Science | View Signed Agreement |

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|--------|--------------|------------------------|--|----------------|-----------------|-------------------|----------------------------|--------|------------------------------------|--|-----------------------------|
| 1061 | 37846 | Virgin Orbit | Virgin Orbit Newton 4 Testing (Phase II) | 2/15/2023 | 2/15/2024 | Reimbursable | \$546,020 | MSFC | SAA8-2237846.6 | Institutional and Mission Support | View Signed Agreement |
| 1062 | 37795 | LOCKHEED MARTIN | annex to Exchange of Technical Expertise in Support of Deep Space Exploration | 12/8/2022 | 12/31/2023 | Reimbursable | \$920,492 | MSFC | SAA8-2134592.7 | Human Exploration and Operations | View Signed Agreement |
| 1063 | 37775 | SIERRA SPACE CORP. | annex to EXPLORATION AND COMMERCIAL LOW EARTH ORBIT (LEO) TECHNOLOGY DEVELOPMENT AND RISK REDUCTION ACTIVITIES | | 8/1/2024 | Reimbursable | \$12,883,384 | MSFC | SAA8-2236912.3 | Human Exploration and Operations, Space Technology | View Signed Agreement |
| 1064 | 37751 | DYNETICS CORP. | Thermal System Assessments □ | 11/17/2022 | 11/17/2023 | Reimbursable | \$25,000 | MSFC | SAA8-2237750.1 | Science | View Signed Agreement |
| 1065 | 37750 | DYNETICS CORP. | Thermal System Assessments | 11/17/2022 | 11/17/2027 | Reimbursable | \$0 | MSFC | SAA8-2237750 | Human Exploration and Operations | View Signed Agreement |
| 1066 | 37734 | Collins Aerospace | Collins Aerospace Test at Hot Gas Facility | 11/30/2022 | 11/30/2023 | Reimbursable | \$31,445 | MSFC | SAA8-2237734 | Institutional and Mission Support | View Signed Agreement |
| 1067 | 37719 | Corvid Technologies | WIND TUNNEL TESTING | 11/22/2022 | 11/22/2023 | Reimbursable | \$170,763 | MSFC | SAA8-2237718.1 | Institutional and Mission Support | View Signed Agreement |
| 1068 | 37718 | Corvid Technologies | Exchange of Technical Expertise for Commercial Space Transportation | 11/22/2022 | 11/22/2027 | Reimbursable | \$0 | MSFC | SAA8-2237718 | Institutional and Mission Support | View Signed Agreement |
| 1069 | 37692 | | One Newton Thruster Valve Design and Qualification□ | 12/9/2022 | 2/9/2024 | Reimbursable | \$139,269 | MSFC | SAA8-2237691.1 | Human Exploration and Operations | View Signed Agreement |
| 1070 | 37691 | Plasma Processes, Inc. | One Newton Thruster Valve Design and Qualification | 12/9/2022 | 12/9/2027 | Reimbursable | \$0 | MSFC | SAA8-2237691 | Human Exploration and Operations | View Signed Agreement |

| ROW N | O. PAM ID NO. | PARTNER NAME | TITLE/PURPOSE | SIGNATURE DATE | EXPIRATION DATE | TYPE OF AGREEMENT | TOTAL ESTIMATED VALUE | CENTER | CENTER TRACKING NUMBER (IF ANY) | EXPECTED AGENCY BENEFIT(S) | LINK TO SIGNED AGREEMENT |
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| 1071 | 37625 | Onyx Aerospace | Bi-Propellant Throttling Cavitating Venturi Valve Design | 10/18/2022 | 10/18/2024 | Reimbursable | \$367,517 | MSFC | SAA8-2135668.2 | Human Exploration and Operations | View Signed Agreement |
| 1072 | 37582 | UNIVERSITY OF ALABAMA | annex to Earth Science and Space Exploration Technology Development | 3/27/2023 | 3/27/2026 | Non-Reimbursable | \$69,770 | MSFC | SAA8-2235160.2 | Science | View Signed Agreement |
| 1073 | 37581 | BLUE ORIGIN, LLC | annex to Engineering Analysis and Testing | 12/1/2022 | 2/7/2025 | Reimbursable | \$4,984,419 | MSFC | SAA-EA-20-29343.24 | Institutional and Mission Support | View Signed Agreement |
| 1074 | 37491 | SIERRA SPACE CORP. | Full Scale Softgoods Burst Test annex to EXPLORATION AND COMMERCIAL LOW EARTH ORBIT (LEO) TECHNOLOGY DEVELOPMENT AND RISK REDUCTION ACTIVITIES | 2/1/2023 | 2/1/2024 | Reimbursable | \$1,078,861 | MSFC | SAA8-2236912.2 | Human Exploration and Operations | View Signed Agreement |
| 1075 | 37465 | BLUE ORIGIN, LLC | Support and Data analysis for Flow Induced Vibration Testing Dual Flexhose configuration | 10/24/2022 | 10/24/2023 | Reimbursable | \$81,138 | MSFC | SAA8-2235543.4 | Aeronautics | View Signed Agreement |
| 1076 | 37330 | Amazon Kuiper Manufacturing Enterprises, LLC | Space Environment Exposure Testing | 10/11/2022 | 10/11/2023 | Reimbursable | \$36,832 | MSFC | SAA8-2237329.1 | Space Technology, Institutional and Mission Support | View Signed Agreement |
| 1077 | 37329 | Amazon Kuiper Manufacturing Enterprises, LLC | Space Environmental Effects Testing of Materials and Systems | 10/11/2022 | 10/11/2027 | Reimbursable | \$0 | MSFC | SAA8-2237329 | Space Technology, Institutional and Mission Support | View Signed Agreement |
| 1078 | 37311 | Ursa Major Technologies | annex to Rocket Engine Development Support | 9/22/2022 | 9/22/2024 | Reimbursable | \$53,302 | MSFC | SAA8-1931298.4 | Human Exploration and Operations | View Signed Agreement |
| 1079 | 37285 | BLADE DYNAMICS LLLP | Blade Dynamics LLLP SAA | 3/30/2023 | 9/30/2025 | Reimbursable | \$250,000 | MSFC | SAA8-2237285 | Human Exploration and Operations | View Signed Agreement |
| 1080 | 37199 | Albertville High School | ALBERTVILLE HIGH SCHOOL / HIGH SCHOOLS UNITED WITH NASA TO CREATE HARDWARE (HUNCH) PROGRAM | 8/17/2022 | 8/17/2027 | Non-Reimbursable | \$77,626 | MSFC | SAA8-2237199 | Human Exploration and Operations | View Signed Agreement |

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| 1081 | 37160 | Lockheed Martin Corporation | Lockheed Martin Corporation Space Systems | 1/1/2023 | 12/31/2027 | Reimbursable | \$750,000 | MSFC | SAA8-2237160 | Human Exploration and Operations | View Signed Agreement |
| 1082 | 37108 | BLUE ORIGIN, LLC | Annex 23 to Engineering Analysis and Testing | 9/22/2022 | 2/7/2025 | Reimbursable | \$2,495,619 | MSFC | SAA-EA-20-29343.23 | Human Exploration and Operations, Institutional and Mission Support | View Signed Agreement |
| 1083 | 37044 | Agile Space Industries | Engineering Support and Component Development | 9/13/2022 | 9/13/2025 | Reimbursable | \$15,560 | MSFC | SAA8-2237043.1 | Space Technology | View Signed Agreement |
| 1084 | 37043 | Agile Space Industries | Development of Space Propulsion Systems | 9/13/2022 | 9/13/2027 | Reimbursable | \$0 | MSFC | SAA8-2237043 | Space Technology | View Signed Agreement |
| 1085 | 36979 | Aerojet Rocketdyne | Critical Skills Development in Solid Propulsion with Aerojet Rocketdyne | 9/12/2022 | 9/12/2024 | Non-Reimbursable | \$157,429 | MSFC | SAA8-2236864.1 | Human Exploration and Operations | View Signed Agreement |
| 1086 | 36969 | BLUE ORIGIN, LLC | Review and Analysis of Motion Magnification Data during Rocket Engine Testing | 10/19/2022 | 10/19/2023 | Reimbursable | \$15,426 | MSFC | SAA8-2235543.3 | Human Exploration and Operations, Science, Space Technology | View Signed Agreement |
| 1087 | 36962 | Marshall Child Development Center, Inc. | Demand Services for the Marshall Child Development Center | 7/15/2022 | 7/15/2027 | Non-Reimbursable | \$1,424,462 | MSFC | SAA8-2236962 | Institutional and Mission Support | View Signed Agreement |
| 1088 | 36954 | MicroLink Devices, Inc | Space Environmental Effects (SEE) on Solar Array Materials | 7/25/2022 | 7/25/2024 | Reimbursable | \$44,065 | MSFC | SAA8-2236954 | Institutional and Mission Support | View Signed Agreement |
| 1089 | 36951 | Blue Origin Florida, LLC | annex to Production Implementation | 8/2/2022 | 8/2/2024 | Reimbursable | \$134,385 | MSFC | SAA8-2032094.2 | Institutional and Mission Support | View Signed Agreement |
| 1090 | 36913 | SIERRA SPACE CORP | SUBSCALE SOFTGOODS CREEP TESTING | 8/14/2022 | 8/14/2025 | Reimbursable | \$1,736,290 | MSFC | SAA8-2236912.1 | Human Exploration and Operations | View Signed Agreement |

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| 1091 | 36912 | SIERRA SPACE CORP. | EXPLORATION AND COMMERCIAL LOW EARTH ORBIT (LEO) TECHNOLOGY DEVELOPMENT AND RISK REDUCTION ACTIVITIES | 8/14/2022 | 8/14/2027 | Reimbursable | \$0 | MSFC | SAA8-2236912 | Human Exploration and Operations | View Signed Agreement |
| 1092 | 36910 | AEROJET ROCKETDYNE, INC | Solid Rocket Motor Design and Materials Testing | 1/9/2023 | 1/9/2024 | Reimbursable | \$245,398 | MSFC | SAA8-2236863.1 | Human Exploration and Operations | View Signed Agreement |
| 1093 | 36871 | Raytheon Technologies | Raytheon Wind Tunnel Testing | 9/28/2022 | 9/28/2027 | Reimbursable | \$0 | MSFC | SAA8-2236871 | Institutional and Mission Support | View Signed Agreement |
| 1094 | 36864 | Aerojet Rocketdyne | Critical Skills Development in Solid Propulsion with Aerojet Rocketdyne | 9/12/2022 | 9/12/2024 | Non-Reimbursable | \$0 | MSFC | SAA8-2236864 | Human Exploration and Operations, Institutional and Mission Support | View Signed Agreement |
| 1095 | 36863 | AEROJET ROCKETDYNE, INC | Solid Rocket Motor Design and Materials Testing | 1/9/2023 | 1/9/2028 | Reimbursable | \$0 | MSFC | SAA8-2236863 | Human Exploration and Operations | View Signed Agreement |
| 1096 | 36848 | Alabama A&M University | annex to COLLABORATIVE AGREEMENT FOR SYNERGISTIC TECHNOLOGIES | 4/12/2023 | 4/12/2027 | Non-Reimbursable | \$30,922 | MSFC | SAA8-2236843.2 | Space Technology | View Signed Agreement |
| 1097 | 36844 | Alabama A&M University | Tensile Test | 9/12/2022 | 9/12/2024 | Non-Reimbursable | \$59,057 | MSFC | SAA8-2236843.1 | Space Technology | View Signed Agreement |
| 1098 | 36843 | Alabama A&M University | COLLABORATIVE AGREEMENT FOR SYNERGISTIC TECHNOLOGIES | 9/12/2022 | 9/12/2027 | Non-Reimbursable | \$0 | MSFC | SAA8-2236843 | Space Technology | View Signed Agreement |
| 1099 | 36787 | EMBRY-RIDDLE AERONAUTICAL UNIVERSITY | Fireball Network Station at ERAU | 7/6/2022 | 7/6/2027 | Non-Reimbursable | \$1,540 | MSFC | SAA8-2236787 | Science, Education and/or Public Engagement, Institutional and Mission Support | View Signed Agreement |
| 1100 | 36786 | THE UNIVERSITY OF CENTRAL FLORIDA BOARD OF TRUSTEES | Fireball Network Station at UCF | 7/21/2022 | 7/21/2027 | Non-Reimbursable | \$2,571 | MSFC | SAA8-2236786 | Science, Education and/or Public Engagement, Institutional and Mission Support | View Signed Agreement |

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| 1101 | 36726 | Pivotal Space, Inc. | Integrated Launch Architecture Analysis | 8/2/2022 | 9/30/2023 | Reimbursable | \$26,558 | MSFC | SAA8-2235062.2 | Space Technology | View Signed Agreement |
| 1102 | 36713 | LOCKHEED MARTIN | Qual Level Mobility Hardware Testing in V20 at MSFC | 12/16/2022 | 12/16/2024 | Reimbursable | \$313,428 | MSFC | SAA8-2134592.3 | Institutional and Mission Support | View Signed Agreement |
| 1103 | 36708 | BLUE ORIGIN, LLC | annex 13 to Engineering Analysis and Testing - Engine Materials and Processes Support | 8/30/2022 | 2/8/2025 | Reimbursable | \$640,146 | MSFC | SAA-EA-20-29343.13 | Institutional and Mission Support | View Signed Agreement |
| 1104 | 36701 | BLUE ORIGIN, LLC | Blue Origin Hot Gas Testing of Materials @ Hot Gas Test Facility | 9/29/2022 | 9/29/2024 | Reimbursable | \$500,000 | MSFC | SAA8-2236701.12 | Institutional and Mission Support | View Signed Agreement |
| 1105 | 36700 | BLUE ORIGIN, LLC | Blue Origin BE-7 10K LOX TPA | 6/30/2022 | 6/30/2024 | Reimbursable | \$2,723,390 | MSFC | SAA8-202934.11 | Institutional and Mission Support | View Signed Agreement |
| 1106 | 36699 | BLUE ORIGIN, LLC | Blue Origin BE-7 10K LH2 TPA | 6/30/2022 | 6/30/2024 | Reimbursable | \$2,755,264 | MSFC | SAA8-2236699.10 | Institutional and Mission Support | View Signed Agreement |
| 1107 | 36698 | BLUE ORIGIN, LLC | Blue Origin TCA v3.0 | 6/30/2022 | 6/30/2024 | Reimbursable | \$3,708,102 | MSFC | SAA8-2236698.9 | Institutional and Mission Support | View Signed Agreement |
| 1108 | 36614 | BLUE ORIGIN, LLC | annex to Engineering Analysis and Testing | 6/13/2022 | 6/13/2024 | Reimbursable | \$73,004 | MSFC | SAA8-2236614.8 | Space Technology | View Signed Agreement |
| 1109 | 36602 | RUAG Space USA, Inc | RUAG ISA QM2 Strain Gages Instrumentation | 9/14/2022 | 12/31/2023 | Reimbursable | \$2,216,779 | MSFC | SAA8-1829459.5 | Institutional and Mission Support | View Signed Agreement |
| 1110 | 36322 | The Academies at Jonesboro High School | THE ACADEMIES AT JONESBORO HIGH SCHOOL TO PRODUCE HARDWARE OR OTHER USEFUL PRODUCTS UNDER THE HIGH SCHOOLS UNITED WITH NASA TO CREATE HARDWARE (HUNCH) PROGRAM | 3/29/2022 | 3/29/2027 | Non-Reimbursable | \$80,282 | MSFC | SAA8-2236322 | Human Exploration and Operations | View Signed Agreement |

| ROW N | D. PAM ID NO. | PARTNER NAME | TITLE/PURPOSE | SIGNATURE DATE | EXPIRATION DATE | TYPE OF AGREEMENT | TOTAL ESTIMATED VALUE | CENTER | CENTER TRACKING NUMBER (IF ANY) | EXPECTED AGENCY BENEFIT(S) | LINK TO SIGNED AGREEMENT |
|-------|---------------|--|--|----------------|-----------------|-------------------|--------------------------|--------|------------------------------------|--|-----------------------------|
| 1111 | 36321 | Priceville High School | PRICEVILLE HIGH SCHOOL TO PRODUCE HARDWARE OR OTHER USEFUL PRODUCTS UNDER THE HIGH SCHOOLS UNITED WITH NASA TO CREATE HARDWARE (HUNCH) PROGRAM | 4/12/2022 | 4/12/2027 | Non-Reimbursable | \$80,282 | MSFC | SAA8-2236321 | Human Exploration and Operations | View Signed Agreement |
| 1112 | 36317 | Charles Henderson High School | Charles Henderson High School Troy, Alabama / High Schools United with NASA to Create Hardware (HUNCH) Program | 11/1/2022 | 11/1/2027 | Non-Reimbursable | \$80,282 | MSFC | SAA8-2236317 | Human Exploration and Operations | View Signed Agreement |
| 1113 | 36310 | Dodge County High School | Dodge County School - Georgia / High Schools United with NASA to Create Hardware (HUNCH) Program | 3/22/2022 | 3/22/2027 | Non-Reimbursable | \$80,282 | MSFC | SAA8-2236310 | Human Exploration and Operations | View Signed Agreement |
| 1114 | 36307 | Walker County School District by and through the Walker County Board of Education | Fireball Network Station at WCSD | 4/15/2022 | 4/15/2027 | Non-Reimbursable | \$1,429 | MSFC | SAA8-2236307 | Science, Education and/or Public Engagement, Institutional and Mission Support | View Signed Agreement |
| 1115 | 36164 | BLUE ORIGIN, LLC | Annex for waterflow testing of scaled pump configurations in extreme environments | 2/27/2022 | 12/31/2023 | Reimbursable | \$1,156,995 | MSFC | SAA8-1931648.2 | Aeronautics | View Signed Agreement |
| 1116 | 36134 | Lockheed Martin Space | Lockheed Martin Test @ HGF | 6/10/2022 | 6/10/2024 | Reimbursable | \$376,140 | MSFC | SAA8-2032638.2 | Institutional and Mission Support | View Signed Agreement |
| 1117 | 36107 | The University of Texas at El Paso | Annex 1 | 1/20/2023 | 1/20/2025 | Reimbursable | \$18,234 | MSFC | SAA8-2336106.1 | Institutional and Mission Support | View Signed Agreement |
| 1118 | 36106 | The University of Texas at El Paso | UTEP-NASA OSAM Collaboration | 1/20/2023 | 1/20/2028 | Reimbursable | \$0 | MSFC | SAA8-2336106 | Institutional and Mission Support | View Signed Agreement |
| 1119 | 36010 | RUAG Space USA, Inc | annex to Ruag Engineering Services | 2/7/2022 | 12/31/2023 | Reimbursable | \$56,210 | MSFC | SAA8-1829459.4 | Institutional and Mission Support | View Signed Agreement |
| 1120 | 35924 | Astra Space Operations, Inc. | Collaboration on slosh mitigation via disruptive modal coupling | 1/14/2022 | 1/13/2024 | Reimbursable | \$109,344 | MSFC | SAA8-2135923.1 | Space Technology | View Signed Agreement |

| ROW N | O. PAM ID NO. | PARTNER NAME | TITLE/PURPOSE | SIGNATURE DATE | EXPIRATION DATE | TYPE OF AGREEMENT | TOTAL ESTIMATED VALUE | CENTER | CENTER TRACKING NUMBER (IF ANY) | EXPECTED AGENCY BENEFIT(S) | LINK TO SIGNED AGREEMENT |
|-------|---------------|--|---|----------------|-----------------|-------------------|--------------------------|--------|------------------------------------|--|-----------------------------|
| 1121 | 35923 | Astra Space Operations, Inc. | Launch Vehicle Technology Development | 1/14/2022 | 1/13/2027 | Reimbursable | \$0 | MSFC | SAA8-2135923 | Space Technology | View Signed Agreement |
| 1122 | 35880 | Google LLC | annex to THE DISCOVERY, ACCESS AND USE OF LARGE SCIENCE DATASETS | 7/1/2022 | 7/1/2024 | Non-Reimbursable | \$807,352 | MSFC | SAA8-1930011.2 | Science | View Signed Agreement |
| 1123 | 35704 | ROCKET LAB USA, INC. | Design Development and Integration Consultation | 3/16/2022 | 3/16/2025 | Reimbursable | \$428,171 | MSFC | SAA8-2135703.1 | Human Exploration and Operations, Space Technology | View Signed Agreement |
| 1124 | 35703 | Rocket Lab USA, Inc. | Exchange of Technical Expertise for Commercial Space Transportation | 3/16/2022 | 3/16/2027 | Reimbursable | \$0 | MSFC | SAA8-2135703 | Human Exploration and Operations, Space Technology | View Signed Agreement |
| 1125 | 35668 | Onyx Aerospace | Multi-purpose Service Module Study | 1/12/2022 | 1/11/2027 | Reimbursable | \$0 | MSFC | SAA8-2135668 | Human Exploration and Operations | View Signed Agreement |
| 1126 | 35544 | BLUE ORIGIN, LLC | Engines Development | 4/21/2022 | 4/21/2024 | Reimbursable | \$516,719 | MSFC | SAA8-2235543.1 | Institutional and Mission Support | View Signed Agreement |
| 1127 | 35543 | BLUE ORIGIN, LLC | Exchange of Technical Expertise for commercial space transportation | 4/21/2022 | 4/21/2027 | Reimbursable | \$0 | MSFC | SAA8-2235543 | Institutional and Mission Support | View Signed Agreement |
| 1128 | 35509 | Arizona Board of Regents, on Behalf of University of Arizona | Fireball Network Station at MMTO | 2/24/2022 | 2/24/2027 | Non-Reimbursable | \$2,125 | MSFC | SAA8-2135509 | Science, Education and/or Public Engagement, Institutional and Mission Support | View Signed Agreement |
| 1129 | 35508 | Arizona Board of Regents on behalf of The University of Arizona | Fireball Network Station at MLO | 2/7/2022 | 2/7/2027 | Non-Reimbursable | \$1,485 | MSFC | SAA8-2135508 | Science, Education and/or Public Engagement, Institutional and Mission Support | View Signed Agreement |
| 1130 | 35435 | OCHSNER CLINIC FOUNDATION | Ochsner Clinic Foundation | 11/1/2021 | 10/31/2026 | Reimbursable | \$400,000 | MSFC | SAA8-2135435 | Human Exploration and Operations | View Signed Agreement |

| ROW N | D. PAM ID NO. | PARTNER NAME | TITLE/PURPOSE | SIGNATURE DATE | EXPIRATION DATE | TYPE OF AGREEMENT | TOTAL ESTIMATED VALUE | CENTER | CENTER TRACKING NUMBER (IF ANY) | EXPECTED AGENCY BENEFIT(S) | LINK TO SIGNED AGREEMENT |
|-------|---------------|--|---|----------------|-----------------|-------------------|--------------------------|--------|------------------------------------|----------------------------------|-----------------------------|
| 1131 | 35161 | UNIVERSITY OF ALABAMA | COLLABORATIVE AGREEMENT FOR APPLIED EARTH SCIENCE | 8/17/2022 | 8/17/2024 | Non-Reimbursable | \$60,005 | MSFC | SAA8-2235160.1 | Science | View Signed Agreement |
| 1132 | 35160 | UNIVERSITY OF ALABAMA | Earth Science and Space Exploration Technology Development | 8/17/2022 | 8/17/2027 | Non-Reimbursable | \$0 | MSFC | SAA8-2235160 | Science | View Signed Agreement |
| 1133 | 35130 | NVIDIA Corporation | THE DISCOVERY, ACCESS AND USE OF LARGE SCIENCE DATASETS | 2/8/2022 | 2/8/2024 | Non-Reimbursable | \$807,352 | MSFC | SAA8-2135129.1 | Science | View Signed Agreement |
| 1134 | 35129 | NVIDIA Corporation | THE DISCOVERY, ACCESS AND USE OF LARGE SCIENCE DATASETS | 2/8/2022 | 2/8/2027 | Non-Reimbursable | \$0 | MSFC | SAA8-2135129 | Science | View Signed Agreement |
| 1135 | 35062 | Pivotal Space, Inc. | SSTO Thrust Augmented Nozzle Investigation | 4/27/2022 | 4/27/2027 | Reimbursable | \$0 | MSFC | SAA8-2235062 | Space Technology | View Signed Agreement |
| 1136 | 34963 | Defense Advanced Research Projects Agenc | DEMONSTRATION ROCKET FOR AGILE CISLUNAR OPERATIONS (DRACO) | 11/4/2021 | 11/4/2026 | Non-Reimbursable | \$52,584 | MSFC | SAA8-2134963 | Space Technology | View Signed Agreement |
| 1137 | 34821 | NEW MEXICO STATE UNIVERSITY | Fireball Network Station at New Mexico State University | 8/11/2021 | 8/11/2026 | Non-Reimbursable | \$1,447 | MSFC | SAA8-2134821 | Science | View Signed Agreement |
| 1138 | 34742 | Amazon Web Services, Inc. | annex to THE DISCOVERY, ACCESS AND USE OF LARGE SCIENCE DATASETS | 1/4/2022 | 1/4/2024 | Non-Reimbursable | \$807,352 | MSFC | SAA8-1929988.3 | Science | View Signed Agreement |
| 1139 | 34695 | Vivace Corporation | Vivace Corporation Demand Services | 7/1/2021 | 6/30/2026 | Reimbursable | \$1,200,000 | MSFC | SAA8-2134695 | Human Exploration and Operations | View Signed Agreement |
| 1140 | 34614 | Lusher Charter High School | Lusher Charter High School / High Schools United with NASA to Create Hardware (HUNCH) Program | 9/14/2021 | 9/13/2026 | Non-Reimbursable | \$77,585 | MSFC | SAA8-2134614 | Human Exploration and Operations | View Signed Agreement |

| ROW NO | PAM ID NO. | PARTNER NAME | TITLE/PURPOSE | SIGNATURE DATE | EXPIRATION DATE | TYPE OF AGREEMENT | TOTAL ESTIMATED VALUE | CENTER | CENTER TRACKING NUMBER (IF ANY) | EXPECTED AGENCY BENEFIT(S) | LINK TO SIGNED AGREEMENT |
|--------|------------|--|---|----------------|-----------------|-------------------|--------------------------|--------|------------------------------------|--|-----------------------------|
| 1141 | 34613 | East Central High School - Mississippi | East Central High School - Mississippi / High Schools United with NASA to Create Hardware (HUNCH) Program | 9/8/2021 | 9/8/2026 | Non-Reimbursable | \$77,585 | MSFC | SAA8-2134613 | Human Exploration and Operations | View Signed Agreement |
| 1142 | 34607 | HUNTSVILLE CITY SCHOOLS | annex TO PRODUCE HARDWARE OR OTHER USEFUL PRODUCTS UNDER THE HUNCH (HIGH SCHOOLS UNITED WITH NASA TO CREATE HARDWARE) PROGRAM | 6/16/2021 | 6/16/2026 | Non-Reimbursable | \$77,585 | MSFC | SAA8-2031925.3 | Human Exploration and Operations | View Signed Agreement |
| 1143 | 34592 | | Exchange of Technical Expertise in Support of Deep Space Exploration | 8/5/2021 | 8/5/2026 | Reimbursable | \$0 | MSFC | SAA8-2134592 | Human Exploration and Operations, Space Technology | View Signed Agreement |
| 1144 | 34566 | ABL Space Systems Company | ANNEX BETWEEN THE NATIONAL AERONAUTICS AND SPACE ADMINISTRATION GEORGE C. MARSHALL SPACE FLIGHT CENTER AND ABL SPACE SYSTEMS COMPANY FOR PROPULSION DEVELOPMENT | | 8/23/2025 | Reimbursable | \$48,461 | MSFC | SAA8-2134565.1 | Space Technology | View Signed Agreement |
| 1145 | 34565 | ABL Space Systems Company | REIMBURSABLE SPACE ACT UMBRELLA AGREEMENT BETWEEN THE NATIONAL AERONAUTICS AND SPACE ADMINISTRATION GEORGE C. MARSHALL SPACE FLIGHT CENTER AND ABL SPACE SYSTEMS COMPANY FOR PROPULSION DEVELOPMENT | 8/23/2021 | 8/23/2026 | Reimbursable | \$0 | MSFC | SAA8-2134565 | Space Technology | View Signed Agreement |
| 1146 | 34560 | LOCKHEED MARTIN | Exchange of Technical Expertise for commercial space transportation | 7/14/2021 | 7/14/2026 | Reimbursable | \$0 | MSFC | SAA8-2134560 | Human Exploration and Operations | View Signed Agreement |
| 1147 | 34251 | Innovative Rocket Technologies Inc. | IROCKET Propulsion Technology | 6/7/2021 | 6/7/2026 | Reimbursable | \$0 | MSFC | SAA8-2134251 | Space Technology, Technology Transfer | View Signed Agreement |
| 1148 | 34231 | | Beau Chene High School - Louisiana / High Schools United with NASA to Create Hardware (HUNCH) Program | 3/10/2021 | 3/10/2026 | Non-Reimbursable | \$77,585 | MSFC | SAA8-2134231 | Human Exploration and Operations | View Signed Agreement |
| 1149 | 34161 | I/I mazon Wan Sarvicae Inc | annex to THE DISCOVERY, ACCESS AND USE OF LARGE SCIENCE DATASETS | 1/4/2022 | 1/4/2024 | Non-Reimbursable | \$688,028 | MSFC | SAA8-1929988.2 | Science | View Signed Agreement |
| 1150 | 34144 | Iowa State University | Microwave Millimeter Wave Studies | 9/28/2021 | 12/31/2023 | Non-Reimbursable | \$19,374 | MSFC | SAA8-2134143.1 | Space Technology | View Signed Agreement |

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|--------|------------|-----------------------------|--|----------------|-----------------|-------------------|-------------------------|--------|------------------------------------|--|-----------------------------|
| 1151 | 34143 | Iowa State University | Microwave Nondestructive Evaluation (NDE) Studies | 9/28/2021 | 9/28/2026 | Non-Reimbursable | \$0 | MSFC | SAA8-2134143 | Space Technology | View Signed Agreement |
| 1152 | 34107 | General Atomics | DRACO High Temperature Tie Rod Flow Testing | 3/17/2022 | 3/17/2024 | Reimbursable | \$269,061 | MSFC | SAA8-2133900.4 | Human Exploration and Operations, Space Technology | View Signed Agreement |
| 1153 | 34106 | General Atomics | DRACO High Temperature Fuel Column Testing | 3/17/2022 | 3/17/2024 | Reimbursable | \$147,814 | MSFC | SAA8-2133900.3 | Human Exploration and Operations, Space Technology | View Signed Agreement |
| 1154 | 34105 | General Atomics | DRACO High Temperature Flow Channel Testing | 3/17/2022 | 3/17/2024 | Reimbursable | \$151,889 | MSFC | SAA8-2133900.2 | Human Exploration and Operations, Space Technology | View Signed Agreement |
| 1155 | 34034 | Career Academies of Decatur | Career Academies of Decatur for HUNCH Program | 2/2/2021 | 2/2/2026 | Non-Reimbursable | \$77,585 | MSFC | SAA8-2134034 | Human Exploration and Operations | View Signed Agreement |
| 1156 | 34032 | | Hewitt-Trussville High School / High Schools United with NASA to Create Hardware (HUNCH) Program | 4/29/2021 | 4/29/2026 | Non-Reimbursable | \$77,585 | MSFC | SAA8-2134032 | Human Exploration and Operations | View Signed Agreement |
| 1157 | 33949 | Brewer High School | Brewer High School for High Schools United with NASA to Create Hardware (HUNCH) Program | 4/29/2021 | 4/29/2026 | Non-Reimbursable | \$77,585 | MSFC | SAA8-2133949 | Human Exploration and Operations | View Signed Agreement |
| 1158 | 33935 | THE BOEING COMPANY | Boeing XSP Composite Tank | 2/11/2021 | 12/31/2023 | Reimbursable | \$1,020,079 | MSFC | SAA8-2133935 | Institutional and Mission Support | View Signed Agreement |
| 1159 | 33900 | General Atomics | DRACO High Temperature Component Testing | 9/28/2021 | 9/28/2026 | Reimbursable | \$0 | MSFC | SAA8-2133900 | Human Exploration and Operations, Space Technology | View Signed Agreement |
| 1160 | 33735 | Textron Systems Corporation | Textron Systems Marine and Land Systems | 12/8/2020 | 12/31/2023 | Reimbursable | \$80,000 | MSFC | SAA8-2133735 | Human Exploration and Operations | View Signed Agreement |

| ROW | IO. PAM ID NO. | PARTNER NAME | TITLE/PURPOSE | SIGNATURE DATE | EXPIRATION DATE | TYPE OF AGREEMENT | TOTAL ESTIMATED VALUE | CENTER | CENTER TRACKING NUMBER (IF ANY) | EXPECTED AGENCY BENEFIT(S) | LINK TO SIGNED AGREEMENT |
|------|----------------|-----------------------------------|--|----------------|-----------------|-------------------|--------------------------|--------|------------------------------------|----------------------------------|-----------------------------|
| 1161 | 33720 | BK MANUFACTURING, INC | BK Manufacturing, Inc. | 12/9/2020 | 12/9/2025 | Reimbursable | \$525,000 | MSFC | SAA8-2133720 | Human Exploration and Operations | View Signed Agreement |
| 1162 | 33696 | Howe Industries LLC | Nuclear Thermal Propulsion System Development | 12/14/2020 | 12/14/2025 | Reimbursable | \$0 | MSFC | SAA8-2033696 | Space Technology | View Signed Agreement |
| 1163 | 33671 | Dade County Middle School | Dade County Middle School for High Schools United with NASA to Create Hardware (HUNCH) Program | 1/6/2021 | 1/6/2026 | Non-Reimbursable | \$77,585 | MSFC | SAA8-2033671 | Human Exploration and Operations | View Signed Agreement |
| 1164 | 33670 | Dade County High School | Dade County High School for High Schools United with NASA to Create Hardware (HUNCH) Program | 1/6/2021 | 1/6/2026 | Non-Reimbursable | \$67,643 | MSFC | SAA8-2033670 | Human Exploration and Operations | View Signed Agreement |
| 1165 | 33668 | Maxwell High School of Technology | Maxwell High School of Technology for High Schools United with NASA to Create Hardware (HUNCH) Program | 12/14/2020 | 12/14/2025 | Non-Reimbursable | \$67,643 | MSFC | SAA8-2033668 | Human Exploration and Operations | View Signed Agreement |
| 1166 | 33667 | Franklin County High School | FRANKLIN COUNTY HIGH SCHOOL FOR HIGH SCHOOLS UNITED WITH NASA TO CREATE HARDWARE (HUNCH) PROGRAM | 11/5/2020 | 11/5/2025 | Non-Reimbursable | \$77,585 | MSFC | SAA8-2033667 | Human Exploration and Operations | View Signed Agreement |
| 1167 | 33666 | McDonald County High School | MCDONALD COUNTY HIGH SCHOOL FOR HIGH SCHOOLS UNITED WITH NASA TO CREATE HARDWARE (HUNCH) PROGRAM | 12/1/2020 | 12/1/2025 | Non-Reimbursable | \$77,585 | MSFC | SAA8-2033666 | Human Exploration and Operations | View Signed Agreement |
| 1168 | 33662 | Meade County High School | MEADE COUNTY HIGH SCHOOL FOR HIGH SCHOOLS UNITED WITH NASA TO CREATE HARDWARE (HUNCH) PROGRAM | 11/5/2020 | 11/5/2025 | Non-Reimbursable | \$77,585 | MSFC | SAA8-2033662 | Human Exploration and Operations | View Signed Agreement |
| 1169 | 33654 | Mt. Pleasant High School | Mt. Pleasant High School - Tennessee / High Schools United with NASA to Create Hardware (HUNCH) Program. | 12/7/2020 | 12/7/2025 | Non-Reimbursable | \$77,585 | MSFC | SAA8-2033654 | Human Exploration and Operations | View Signed Agreement |
| 1170 | 33653 | Dekalb County Technology Center | Dekalb County Technology Center for High Schools United with NASA to Create Hardware (HUNCH) Program | 11/19/2020 | 11/19/2025 | Non-Reimbursable | \$77,585 | MSFC | SAA8-2033653 | Human Exploration and Operations | View Signed Agreement |

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|--------|------------|----------------------------------|--|----------------|-----------------|---------------------|--------------------------|--------|------------------------------------|----------------------------------|-----------------------------|
| 1171 | 33652 | Marshall County Technical School | Marshall County Technical School for High Schools United with NASA to Create Hardware (HUNCH) Program | 11/30/2020 | 11/30/2025 | Non-Reimbursable | \$77,585 | MSFC | SAA8-2033652 | Human Exploration and Operations | View Signed Agreement |
| 1172 | 33651 | Laurel High School | Laurel High School for High Schools United with NASA to Create Hardware (HUNCH) Program | 12/15/2020 | 12/15/2025 | Non-Reimbursable | \$77,585 | MSFC | SAA8-2033651 | Human Exploration and Operations | View Signed Agreement |
| 1173 | 33647 | | Earnest Pruett Center of Technology/High Schools United with NASA to Create Hardware (HUNCH) Program | 3/24/2021 | 3/24/2026 | Non-Reimbursable | \$77,585 | MSFC | SAA8-2033647 | Human Exploration and Operations | View Signed Agreement |
| 1174 | 33646 | McGavock High School | McGavock High School - Tennessee / High Schools United with NASA to Create Hardware (HUNCH) Program | 3/17/2021 | 3/17/2026 | Non-Reimbursable | \$77,585 | MSFC | SAA8-2033646 | Human Exploration and Operations | View Signed Agreement |
| 1175 | 33645 | LINCOLN COUNTY HIGH SCHOOL | Lincoln County High School - Tennessee / High Schools United with NASA to Create Hardware (HUNCH) Program | 11/13/2020 | 11/13/2025 | Non-Reimbursable | \$77,585 | MSFC | SAA8-2033645 | Human Exploration and Operations | View Signed Agreement |
| 1176 | 33627 | HUNTSVILLE CITY SCHOOLS | Huntsville City School for High Schools United with NASA to Create Hardware (HUNCH) Program - Jemison Annex | 6/16/2021 | 6/16/2026 | Non-Reimbursable | \$77,585 | MSFC | SAA8-2031925.1 | Human Exploration and Operations | View Signed Agreement |
| 1177 | 33577 | Tellus Science Museum | Fireball Network Station at Tellus Science Museum | 12/7/2020 | 12/7/2025 | Non-Reimbursable | \$1,674 | MSFC | SAA8-2033577 | Science | View Signed Agreement |
| 1178 | 33491 | | Propulsion consultation to support design of novel thrust chamber concepts | 3/1/2021 | 3/1/2024 | Reimbursable | \$6,918 | MSFC | SAA8-2033490.1 | Human Exploration and Operations | View Signed Agreement |
| 1179 | 33490 | | Support design, development and testing of novel cryogenic engine concepts | 3/1/2021 | 3/1/2026 | Reimbursable | \$0 | MSFC | SAA8-2033490 | Human Exploration and Operations | View Signed Agreement |
| 1180 | 33447 | AST&Science, LLC | Spacecraft Component Testing | 11/3/2020 | 11/3/2025 | Reimbursable | \$0 | MSFC | SAA8-2033447 | Space Technology | View Signed Agreement |

| ROW NO | PAM ID NO. | PARTNER NAME | TITLE/PURPOSE | SIGNATURE DATE | EXPIRATION DATE | TYPE OF AGREEMENT | TOTAL ESTIMATED VALUE | CENTER | CENTER TRACKING NUMBER (IF ANY) | EXPECTED AGENCY BENEFIT(S) | LINK TO SIGNED AGREEMENT |
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| 1181 | 33444 | | THERMOPHYSICAL PROPERTIES MEASUREMENTS USING ELECTROSTATIC LEVITATION | 11/20/2020 | 11/20/2025 | Reimbursable | \$0 | MSFC | SAA8-2033444 | Science | View Signed Agreement |
| 1182 | 33295 | | THE DISCOVERY, ACCESS AND USE OF LARGE SCIENCE DATASETS | 8/11/2021 | 8/11/2026 | Non-Reimbursable | \$685,153 | MSFC | SAA8-2133294.1 | Science | View Signed Agreement |
| 1183 | 33294 | | THE DISCOVERY, ACCESS AND USE OF LARGE SCIENCE DATASETS | 8/11/2021 | 8/11/2026 | Non-Reimbursable | \$0 | MSFC | SAA8-2133294 | Science | View Signed Agreement |
| 1184 | 33098 | International Business Machines Corporation | THE DISCOVERY, ACCESS AND USE OF LARGE SCIENCE DATASETS | 11/2/2022 | 11/2/2024 | Non-Reimbursable | \$803,315 | MSFC | SAA8-2233097.1 | Science | View Signed Agreement |
| 1185 | 33097 | International Business Machines IBM Corporation, through its Thomas J. T.J. Watson Research Center | the Discovery, Access and Use of Large Science Datasets | 11/2/2022 | 11/2/2027 | Non-Reimbursable | \$0 | MSFC | SAA8-2233097 | Science | View Signed Agreement |
| 1186 | 33021 | | Design and manufacturing review for rocket engine components | 10/14/2020 | 10/14/2023 | Reimbursable | \$45,056 | MSFC | SAA8-2033020.1 | Space Technology | View Signed Agreement |
| 1187 | 33020 | RELATIVITY SPACE, INC. | Rocket Engine Development and Test | 10/14/2020 | 10/14/2025 | Reimbursable | \$0 | MSFC | SAA8-2033020 | Space Technology | View Signed Agreement |
| 1188 | 32804 | UNIVERSITY OF ALABAMA | Space Exploration Technology Development | 2/1/2021 | 2/1/2026 | Non-Reimbursable | \$0 | MSFC | SAA8-2132804 | Human Exploration and Operations, Space Technology | View Signed Agreement |
| 1189 | 32788 | IX BOW I allnen Sveteme inc | COLLABORATION ON ENGINEERING TECHNOLOGIES FOR EARTH, LUNAR AND SPACE APPLICATIONS | 1/19/2021 | 1/19/2026 | Non-Reimbursable | \$0 | MSFC | SAA8-2032788 | Space Technology | View Signed Agreement |
| 1190 | 32718 | Methuselah Foundation | The Centennial Challenges Lunar Nutrition Challenge | 8/28/2020 | 9/30/2024 | Non-Reimbursable | \$1,314,936 | MSFC | SAA8-2032718 | Human Exploration and Operations | View Signed Agreement |

| ROW N | O. PAM ID NO. | PARTNER NAME | TITLE/PURPOSE | SIGNATURE DATE | EXPIRATION DATE | TYPE OF AGREEMENT | TOTAL ESTIMATED VALUE | CENTER | CENTER TRACKING NUMBER (IF ANY) | EXPECTED AGENCY BENEFIT(S) | LINK TO SIGNED AGREEMENT |
|-------|---------------|---------------------------------------|---|----------------|-----------------|-------------------|--------------------------|--------|------------------------------------|------------------------------------|-----------------------------|
| 1191 | 32638 | Lockheed Martin Space | Exchange of Technical Expertise for commercial space transportation | 6/24/2020 | 6/24/2025 | Reimbursable | \$0 | MSFC | SAA8-2032638 | Human Exploration and Operations | View Signed Agreement |
| 1192 | 32551 | ARCTIC SLOPE TECHNICAL SERVICES, INC. | Artificial intelligence computer software for space flight systems | 9/28/2020 | 9/28/2025 | Non-Reimbursable | \$0 | MSFC | SAA8-2032551 | Human Exploration and Operations | View Signed Agreement |
| 1193 | 32353 | Cullman Area Technology Academy | TO PRODUCE HARDWARE OR OTHER USEFUL PRODUCTS UNDER THE HIGH SCHOOLS UNITED WITH NASA TO CREATE HARDWARE (HUNCH) PROGRAM | 9/23/2020 | 9/23/2025 | Non-Reimbursable | \$72,338 | MSFC | SAA8-2032353 | Education and/or Public Engagement | View Signed Agreement |
| 1194 | 32156 | Imperx, Inc. | Rugged Space Rated High Definition – Serial Data Interface (HD-SDI) Camera | 5/11/2020 | 11/23/2023 | Non-Reimbursable | \$239,458 | MSFC | SAA8-2032156 | Human Exploration and Operations | View Signed Agreement |
| 1195 | 32094 | Blue Origin Florida, LLC | Production Implementation | 6/11/2020 | 6/11/2025 | Reimbursable | \$0 | MSFC | SAA8-2032094 | Human Exploration and Operations | View Signed Agreement |
| 1196 | 32069 | KT Engineering Corporation | Annex to FASTRAC Powerpack Testing and Aerospike Nozzle Analysis in Support of USAF ARISE Program | 3/24/2020 | 2/5/2025 | Reimbursable | \$352,878 | MSFC | SAA8-2031673.2 | Aeronautics | View Signed Agreement |
| 1197 | 31926 | HUNTSVILLE CITY SCHOOLS | Huntsville City School for High Schools United with NASA to Create Hardware (HUNCH) Program - Grissom Annex | 6/16/2021 | 6/16/2026 | Non-Reimbursable | \$77,585 | MSFC | SAA8-2031925.2 | Human Exploration and Operations | View Signed Agreement |
| 1198 | 31925 | HUNTSVILLE CITY SCHOOLS | TO PRODUCE HARDWARE OR OTHER USEFUL PRODUCTS UNDER THE HUNCH (HIGH SCHOOLS UNITED WITH NASA TO CREATE HARDWARE) PROGRAM | 6/16/2021 | 6/16/2026 | Non-Reimbursable | \$0 | MSFC | SAA8-2031925 | Human Exploration and Operations | View Signed Agreement |
| 1199 | 31673 | KT Engineering Corporation | FASTRAC Powerpack Testing and Aerospike Nozzle Analysis in Support of USAF ARISE Program | 2/5/2020 | 2/5/2025 | Reimbursable | \$0 | MSFC | SAA8-2031673 | Aeronautics | View Signed Agreement |
| 1200 | 31653 | University of Louisiana at Lafayette | SAA8-2031653 Thermophysical Properties Testing in the Electrostatic Levitation Laboratory | 10/19/2020 | 10/19/2025 | Reimbursable | \$0 | MSFC | SAA8-2031653 | Human Exploration and Operations | View Signed Agreement |

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| 1201 | 31648 | BLUE ORIGIN, LLC | Extreme Environment Testing and Evaluation of Material Properties | 12/11/2019 | 12/11/2024 | Reimbursable | \$0 | MSFC | SAA8-1931648 | Aeronautics | View Signed Agreement |
| 1202 | 31571 | INTUITIVE MACHINES, LLC | Development of Lunar Lander Systems Technologies | 3/19/2020 | 3/19/2025 | Reimbursable | \$0 | MSFC | SAA8-2031571 | Space Technology | View Signed Agreement |
| 1203 | 31535 | ATK Launch Systems Inc. | Exchange of Technical Expertise for commercial space transportation | 12/9/2019 | 12/9/2024 | Reimbursable | \$0 | MSFC | SAA8-1931535 | Institutional and Mission Support | View Signed Agreement |
| 1204 | 31419 | Unites States Air Force | Additive Construction Research | 8/31/2021 | 8/31/2024 | Non-Reimbursable | \$61,589 | MSFC | SAA8-2031419 | Human Exploration and Operations | View Signed Agreement |
| 1205 | 31298 | Ursa Major Technologies | Rocket Engine Development Support | 10/30/2019 | 10/30/2024 | Reimbursable | \$0 | MSFC | SAA8-1931298 | Human Exploration and Operations, Space Technology | View Signed Agreement |
| 1206 | 31130 | SPACE SYSTEMS LORAL, LLC | Room-Temperature-Vulcanized (RTV) Adhesive Coating Material Test | 10/21/2019 | 10/21/2024 | Reimbursable | \$54,683 | MSFC | SAA8-1931129.1 | Human Exploration and Operations | View Signed Agreement |
| 1207 | 31129 | SPACE SYSTEMS LORAL, LLC | Space Environmental Effects Testing and Characterization of Material, Power, and Communication Systems | 10/21/2019 | 10/21/2024 | Reimbursable | \$0 | MSFC | SAA8-1931129 | Human Exploration and Operations | View Signed Agreement |
| 1208 | 31098 | U.S SPACE AND ROCKET CENTER | USSRC OPERATE AS MARSHALL SPACE FLIGHT CENTER OFFICIAL VISITOR CENTER | 1/26/2021 | 1/26/2026 | Non-Reimbursable | \$117,037 | MSFC | SAA8-2031097.1 | Education and/or Public Engagement | View Signed Agreement |
| 1209 | 31097 | U.S SPACE AND ROCKET CENTER | U.S. Space and Rocket Center Space Act Umbrella Agreement | 1/26/2021 | 1/26/2026 | Non-Reimbursable | \$0 | MSFC | SAA8-2031097 | Education and/or Public Engagement | View Signed Agreement |
| 1210 | 30898 | RHA Materials, LLC | Non-contact measurements of thermophysical properties of materials | 11/30/2020 | 11/30/2025 | Reimbursable | \$0 | MSFC | SAA8-1930898 | Science | View Signed Agreement |

| ROW NO | PAM ID NO. | PARTNER NAME | TITLE/PURPOSE | SIGNATURE DATE | EXPIRATION DATE | TYPE OF AGREEMENT | TOTAL ESTIMATED VALUE | CENTER | CENTER TRACKING NUMBER (IF ANY) | EXPECTED AGENCY BENEFIT(S) | LINK TO SIGNED AGREEMENT |
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| 1211 | 30516 | ASTROBOTIC TECHNOLOGY, INC | Engineering Analysis and development for Commercial Lunar Lander and Payload Services | 1/27/2020 | 1/27/2025 | Reimbursable | \$0 | MSFC | SAA8-1930516 | Space Technology | View Signed Agreement |
| 1212 | 30233 | BLUE ORIGIN, LLC | Blue Origin On Demand Services | 7/9/2019 | 7/9/2024 | Reimbursable | \$6,350,000 | MSFC | SAA8-1830232.1 | | View Signed Agreement |
| 1213 | 30232 | BLUE ORIGIN, LLC | DEMAND SERVICES AND GENERAL SUPPORT TO TEST STAND 4670 | 7/9/2019 | 7/9/2024 | Reimbursable | \$0 | MSFC | SAA8-1830232 | Institutional and Mission Support | View Signed Agreement |
| 1214 | 30143 | | FOR OPERATION OF TELECOMMUNICATIONS EQUIPMENT IN BUILDING 4476 | 11/26/2019 | 11/26/2024 | Reimbursable | \$141,961 | MSFC | SAA8-1930143 | Institutional and Mission Support | View Signed Agreement |
| 1215 | 30136 | Interstellar Technologies Corporation | Propulsion Engineering Analysis, Consultation, Feasibility Studies and Space Vehicle Development Activities | 9/18/2019 | 9/18/2024 | Reimbursable | \$0 | MSFC | SAA8-1930136 | Human Exploration and Operations, Space Technology | View Signed Agreement |
| 1216 | 30011 | | THE DISCOVERY, ACCESS AND USE OF LARGE SCIENCE DATASETS | 10/21/2019 | 10/21/2024 | Non-Reimbursable | \$0 | MSFC | SAA8-1930011 | Science, Education and/or Public Engagement | View Signed Agreement |
| 1217 | 29999 | RUAG Space USA, Inc | RUAG Centaur V Structural Tests | 9/10/2019 | 12/31/2023 | Reimbursable | \$18,396,484 | MSFC | SAA8-1829459.2 | Space Technology | View Signed Agreement |
| 1218 | 29988 | | THE DISCOVERY, ACCESS AND USE OF LARGE SCIENCE DATASETS | 1/6/2020 | 1/6/2025 | Non-Reimbursable | \$0 | MSFC | SAA8-1929988 | Science | View Signed Agreement |
| 1219 | 29985 | | SPACE EXPLORATION TECHNOLOGY DEVELOPMENT IN MOTION MAGNIFICATION TECHNIQUES | 5/28/2019 | 5/27/2024 | Non-Reimbursable | \$67,372 | MSFC | SAA8-1929985 | Human Exploration and Operations | View Signed Agreement |
| 1220 | 29535 | United Launch Alliance | ULA Integrated Fluid System Test (IFST) | 6/6/2019 | 10/31/2023 | Reimbursable | \$17,204,361 | MSFC | SAA8-1726580.5 | Institutional and Mission Support | View Signed Agreement |

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| 1221 | 29459 | RUAG Space USA, Inc | Ruag Engineering Services | 1/24/2019 | 1/24/2024 | Reimbursable | \$0 | MSFC | SAA8-1829459 | Institutional and Mission Support | View Signed Agreement |
| 1222 | 28434 | Spirit Aero Systems | Collaboration in Aeronautical Vehicle Manufacturing | 4/25/2019 | 4/25/2024 | Reimbursable | \$0 | MSFC | SAA8-1828434 | Human Exploration and Operations | View Signed Agreement |
| 1223 | 28013 | CITY OF NEW ORLEANS, LA | City of New Orleans, LA Temporary Emergency Shelter for City Employees at MAF | 3/28/2019 | 3/28/2024 | Non-Reimbursable | \$137,705 | MSFC | SAA8-1828013 | Human Exploration and Operations | View Signed Agreement |
| 1224 | 27934 | UNIVERSITY OF PITTSBURGH | Fireball Network Station at Allegheny Observatory | 10/4/2018 | 10/4/2023 | Non-Reimbursable | \$1,701 | MSFC | SAA8-1827934 | Science | View Signed Agreement |
| 1225 | 27541 | SIERRA NEVADA CORP | Design and manufacturing review for rocket engine components | 6/11/2020 | 12/31/2023 | Reimbursable | \$55,514 | MSFC | SAA8-2027540.1 | Human Exploration and Operations, Science | View Signed Agreement |
| 1226 | 27540 | SIERRA NEVADA CORPORATION | Rocket Engine Development and Test | 6/11/2020 | 6/11/2025 | Reimbursable | \$0 | MSFC | SAA8-2027540 | Human Exploration and Operations, Science | View Signed Agreement |
| 1227 | 27244 | United Launch Alliance | ULA Vulcan Upper Stage Test | 2/21/2018 | 10/31/2023 | Reimbursable | \$32,774,148 | MSFC | SAA8-1726580.3 | Aeronautics | View Signed Agreement |
| 1228 | 26580 | United Launch Alliance | Launch Vehicle Manufacturing and Test Support | 10/31/2017 | 10/30/2024 | Reimbursable | \$0 | MSFC | SAA8-1726580 | Human Exploration and Operations, Space Technology | View Signed Agreement |
| 1229 | 39142 | Blue Origin, LLC | Annex Two to Reimbursable Umbrella Agreement between the National Aeronautics and Space Administration John C. Stennis Space Center and Blue Origin, LLC for Rocket Propulsion Testing and Support | 6/28/2023 | 6/28/2026 | Reimbursable | \$5,100,000 | SSC | SSAA-1053-0210 | Human Exploration and Operations | View Signed Agreement |
| 1230 | 38970 | ABL Space Systems Company | Annex Two Between the National Aeronautics and Space Administration John C. Stennis Space Center and ABL Systems Company Under Space Act Umbrella No. 34565, dated 08/23/2021 | 5/31/2023 | 5/31/2024 | Reimbursable | \$7,900 | SSC | SSAA-1053-0209 | Human Exploration and Operations | View Signed Agreement |

| ROW NO | D. PAM ID NO. | PARTNER NAME | TITLE/PURPOSE | SIGNATURE DATE | EXPIRATION DATE | TYPE OF AGREEMENT | TOTAL ESTIMATED VALUE | CENTER | CENTER TRACKING NUMBER (IF ANY) | EXPECTED AGENCY BENEFIT(S) | LINK TO SIGNED AGREEMENT |
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| 1231 | 38824 | Blue Origin, LLC | Annex One Between National Aeronautics and Space Administration John C. Stennis Space Center and Blue Origin, LLC Under Space Act Umbrella Agreement SSAA- 1053-0207 | 6/28/2023 | 6/28/2025 | Reimbursable | \$295,000 | SSC | SSAA-1053-0208 | Human Exploration and Operations | View Signed Agreement |
| 1232 | 38823 | Blue Origin, LLC | Reimbursable Umbrella Agreement between the National Aeronautics and Space Administration John C. Stennis Space Center and Blue Origin, LLC for Rocket Propulsion Testing and Support | 6/28/2023 | 6/28/2028 | Reimbursable | \$0 | SSC | SSAA-1053-0207 | Human Exploration and Operations | View Signed Agreement |
| 1233 | 36997 | Rocket Crafters, Inc. | For Propulsion Engineering and Testing Support | 7/12/2022 | 7/12/2027 | Reimbursable | \$0 | SSC | SSAA-1053-0198 | Human Exploration and Operations | View Signed Agreement |
| 1234 | 36269 | Rolls-Royce, Corp | Annex Four to Provide Propulsion Test Engineering Assessments | 3/4/2022 | 2/28/2024 | Reimbursable | \$351,000 | SSC | SSAA-1053-0195 | Human Exploration and Operations | View Signed Agreement |
| 1235 | 36006 | Innovative Imaging and Research Corp. | Reimbursable Space Act Agreement for Unmanned Aircraft Systems | 2/9/2022 | 2/9/2027 | Reimbursable | \$5,759 | SSC | SSAA-1053-0194 | Institutional and Mission Support | View Signed Agreement |
| 1236 | 35664 | Ursa Major Technologies | Annex Two Ursa Major Propulsion Engineering and Test Support | 12/2/2021 | 12/2/2023 | Reimbursable | \$1,443,948 | SSC | SSAA-1053-0191 | Human Exploration and Operations | View Signed Agreement |
| 1237 | 34726 | United States Army Corps of Engineers (USACE) Mobile District | Non Reimbursable Agreement between NASA SSC and USACE | 6/15/2021 | 6/15/2026 | Non-Reimbursable | \$261,142 | SSC | SSAA-1050-0210 | Institutional and Mission Support | View Signed Agreement |
| 1238 | 34292 | Louisiana Technology Transfer Office | Louisiana Transfer Technology Office for Occupancy of SSC Facilities | 5/2/2021 | 5/2/2026 | Reimbursable | \$12,778 | SSC | SSAA-1051-0089 | Institutional and Mission Support | View Signed Agreement |
| 1239 | 34280 | Aeroject Rocketdyne, Inc. | Reimbursable Space Act Agreement between The National Aeronautics and Space Administration John C. Stennis Space Center and Aerojet Rocketdyne of DE, Inc. for Occupancy of Facilities | 9/29/2021 | 9/29/2026 | Reimbursable | \$4,077,191 | SSC | SSAA-1053-0182 | Institutional and Mission Support | View Signed Agreement |
| 1240 | 32234 | Infinity Science Center, Inc. | Annex Three to Non-Reimbursable Space Act Umbrella Agreement Infinity Science Center, Inc. for Framework on a Regional Partnership | 7/7/2020 | 7/7/2025 | Non-Reimbursable | \$37,450 | SSC | SSAA-1053-0173 | Institutional and Mission Support | View Signed Agreement |

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| 1241 | 32233 | Infinity Science Center, Inc. | Annex Two to Non-Reimbursable Space Act Umbrella Agreement Infinity Science Center, Inc. for Framework on a Regional Partnership | 7/7/2020 | 7/7/2025 | Non-Reimbursable | \$595,711 | SSC | SSAA-1053-0172 | Institutional and Mission Support | View Signed Agreement |
| 1242 | 32181 | Infinity Science Center, Inc. | Annex One to Nonreimbursable Space Act Umbrella Agreement Between Infinity Science Center for Framework on a Regional Partnership | 7/7/2020 | 7/7/2025 | Non-Reimbursable | \$394,746 | SSC | SSAA-1053-0171 | Institutional and Mission Support | View Signed Agreement |
| 1243 | 32180 | Infinity Science Center, Inc. | Non-Reimbursable Space Act Umbrella Agreement Infinity Science Center, Inc. for Framework on a Regional Partnership | 7/7/2020 | 7/7/2025 | Non-Reimbursable | \$0 | SSC | SSAA-1053-0170 | Institutional and Mission Support | View Signed Agreement |
| 1244 | 32137 | Launcher Space | Annex One Propulsion Test Support to Launcher Space | 3/31/2020 | 3/31/2025 | Reimbursable | \$1,887,023 | SSC | SSAA-1053-0175 | Human Exploration and Operations | View Signed Agreement |
| 1245 | 32136 | Launcher Space | Propulsion Test Support to Launcher Space | 3/31/2020 | 3/31/2025 | Reimbursable | \$0 | SSC | SSAA-1053-0174 | Human Exploration and Operations | View Signed Agreement |
| 1246 | 31398 | Rocket Lab, USA | Rocket Lab Annex One | 12/14/2022 | 12/13/2027 | Reimbursable | \$124,432 | SSC | SSAA-1053-0202 | Human Exploration and Operations | View Signed Agreement |
| 1247 | 31397 | Rocket Lab, USA | Umbrella for Rocket Lab Propulsion Testing and Related Services | 12/13/2022 | 12/13/2027 | Reimbursable | \$0 | SSC | SSAA-1053-0203 | Human Exploration and Operations | View Signed Agreement |
| 1248 | 31147 | | Umbrella Agreement for Restricted Airspace at John C. Stennis Space Center | 1/14/2020 | 1/14/2025 | Reimbursable | \$0 | SSC | SSAA-1051-0081 | Aeronautics | View Signed Agreement |
| 1249 | 30052 | Interstellar Technologies, LLC | Propulsion Engineering and Testing Support | 5/6/2019 | 5/6/2024 | Reimbursable | \$0 | SSC | SSAA-1053-0162 | Human Exploration and Operations | View Signed Agreement |
| 1250 | 27516 | | Use of NASA facilities and services in support of the Mississippi Technology Transfer Office | 4/9/2018 | 4/9/2024 | Reimbursable | \$3,286,895 | SSC | SSAA-1051-0077 | Technology Transfer | View Signed Agreement |

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| 1251 | 25760 | The Board of Trustees of Mississippi Institutions of Higher Learning | The Center of Higher Learning and Related University Activities | 11/29/2017 | 11/29/2023 | Reimbursable | \$3,648,000 | SSC | SSAA-1051-0066 | Education and/or Public Engagement | View Signed Agreement |
| 1252 | 38470 | Institute of Gas Technology | GTI Energy Natural Gas Heat Pump Water Heater Pilot Test | 5/31/2023 | 1/31/2024 | Non-Reimbursable | \$3,373 | WFF | | Institutional and Mission Support | View Signed Agreement |
| 1253 | 38444 | VIRGINIA SPACE FLIGHT ACADEMY | Outreach Activities | 5/1/2023 | 4/30/2028 | Non-Reimbursable | \$17,500 | WFF | GSFC-23-38444 | Education and/or Public Engagement | View Signed Agreement |
| 1254 | 37981 | NX Aviation | Range Support and Airfield Services | 6/2/2023 | 6/1/2025 | Reimbursable | \$35,456 | WFF | GSFC-23-37981 | Aeronautics, Institutional and Mission Support | View Signed Agreement |
| 1255 | 37970 | BALL AEROSPACE AND TECHNOLOGIES | SmallSat Tracking Services | 1/19/2023 | 9/30/2023 | Reimbursable | \$202,550 | WFF | GSFC-23-37970 | Institutional and Mission Support | View Signed Agreement |
| 1256 | 37688 | National Space Grant Foundation | STEM Education student Launch Opportunities | 12/15/2022 | 12/14/2027 | Non-Reimbursable | \$1,420,000 | WFF | GSFC-23-37688 | Education and/or Public Engagement | View Signed Agreement |
| 1257 | 36436 | Pluto Aerospace Inc. | Range Operational Support and Safety Review | 4/20/2022 | 4/19/2027 | Reimbursable | \$0 | WFF | GSFC-22-36436 | Science, Institutional and Mission Support | View Signed Agreement |
| 1258 | 36427 | ROCKET LAB USA | GSFC-21-32608 Rocket Lab Umbrella Agreement Annex 5 - Establishing Safety Certification for NASA Autonomous Flight Termination Unit (NAFTU) integrated on Rocket Lab hardware. | 8/17/2022 | 8/16/2024 | Reimbursable | \$250,000 | WFF | GSFC-20-32608 | Science, Institutional and Mission Support | View Signed Agreement |
| 1259 | 36338 | Virginia Department of Health | Closed Points of Dispensing (POD) Provision of Emergency Medical Prophylaxis | 7/21/2022 | 7/20/2027 | Non-Reimbursable | \$4,500 | WFF | | Institutional and Mission Support | View Signed Agreement |
| 1260 | 36050 | GULFSTREAM AEROSPACE CORP | Provide Water Ingestion testing support to Gulfstream. | 7/27/2022 | 7/26/2024 | Reimbursable | \$368,142 | WFF | GSFC-22-36049 | Aeronautics, Institutional and Mission Support | View Signed Agreement |

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| 1261 | 36049 | GULFSTREAM AEROSPACE CORP | Water Ingestion Testing | 7/27/2022 | 7/26/2027 | Reimbursable | \$0 | WFF | GSFC-22-36049 | Aeronautics, Institutional and Mission Support | View Signed Agreement |
| 1262 | | Kratos Space and Missile Defense Systems, Inc. | Range Services | 6/6/2022 | 6/5/2027 | Reimbursable | \$0 | WFF | GSFC-22-36031 | Institutional and Mission Support | View Signed Agreement |
| 1263 | 35977 | Police Department of Baltimore City | Incident Response | 6/21/2022 | 6/20/2027 | Non-Reimbursable | \$4,500 | WFF | | Institutional and Mission Support | View Signed Agreement |
| 1264 | 35896 | ROCKET LAB USA | Electron Concept of Operations (CONOPS) Study | 2/4/2022 | 2/3/2024 | Reimbursable | \$25,000 | WFF | GSFC-20-32608 | Institutional and Mission Support | View Signed Agreement |
| 1265 | 35700 | Astra Space Operations Incorporated | Range Services | 4/17/2022 | 4/16/2027 | Reimbursable | \$0 | WFF | GSFC-22-35700 | Institutional and Mission Support | View Signed Agreement |
| 1266 | 35581 | Astra Space Operations Incorporated | Telemetry and Radar Support | 11/4/2021 | 11/3/2023 | Reimbursable | \$999,000 | WFF | GSFC-22-35581 | Institutional and Mission Support | View Signed Agreement |
| 1267 | | EMBRY RIDDLE AERONAUTICAL UNIVERSITY | Airglow Short-Wave Infrared (SWIR) Imager | 10/18/2021 | 10/17/2023 | Non-Reimbursable | \$26,000 | WFF | GSFC-22-35393 | Science | View Signed Agreement |
| 1268 | 35336 | ROCKET LAB USA | Annex 2 to Rocket Lab Autonomous Flight Termination System Support | 10/5/2021 | 10/4/2023 | Reimbursable | \$30,000 | WFF | GSFC-21-32608 | Science, Institutional and Mission Support | View Signed Agreement |
| 1269 | 35274 | County of Accomack | Joint Emergency Planning, Response, and Management Activities at the Wallops Flight Facility | 1/7/2022 | 1/6/2027 | Non-Reimbursable | \$4,500 | WFF | | Institutional and Mission Support | View Signed Agreement |
| 1270 | 34693 | Old Dominion University | Annex 2 for Educational Collaboration Relating to STEM Careers | 10/26/2021 | 5/3/2026 | Non-Reimbursable | \$8,211 | WFF | LaRC SAA1-34376 | Education and/or Public Engagement | View Signed Agreement |

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| 1271 | 34256 | Prince George`s County Health Department | Closed Points of Dispensing (POD) Provision of Mass Emergency Medical Prophylaxis | 2/8/2022 | 2/7/2027 | Non-Reimbursable | \$2,000 | WFF | | Institutional and Mission Support | View Signed Agreement |
| 1272 | 34158 | Eastern Shore Community College | Collaboration on Educational Opportunities | 10/26/2021 | 10/25/2026 | Non-Reimbursable | \$2,738 | WFF | GSFC-21-34158 | Education and/or Public Engagement | View Signed Agreement |
| 1273 | 34157 | Eastern Shore Community College | Collaboration to Facilitate Joint Research, Technology Development, and Educational Initiatives | 10/26/2021 | 10/25/2026 | Non-Reimbursable | \$0 | 1 V/V | GSFC-21-34158 NRSAA Umbrella | Education and/or Public Engagement | View Signed Agreement |
| 1274 | 34097 | JOHNS HOPKINS UNIVERSITY / APPLIED PHYSICS LAB | Use of the Wallops Geophysical Observatory (WGO) for the Collection of Scientific Data from Super Dual Auroral Radar Network (SUPERDARN) | 7/19/2021 | 7/18/2026 | Non-Reimbursable | \$25,441 | WFF | GSFC-21-34097 | Institutional and Mission Support | View Signed Agreement |
| 1275 | 34092 | THE REGENTS OF THE UNIVERSITY OF COLORADO | Use of the Wallops Geophysical Observatory (WGO) for the Collection of Scientific Data from the Ionospheric Radar | 7/2/2021 | 7/1/2026 | Non-Reimbursable | \$25,441 | WFF | GSFC-21-34092 | Institutional and Mission Support | View Signed Agreement |
| 1276 | 33612 | Enroute Computer Systems | Wet Runway Brake Testing | 8/30/2021 | 8/29/2024 | Reimbursable | \$460,879 | WFF | GSFC-21-33611 | Aeronautics, Institutional and Mission Support | View Signed Agreement |
| 1277 | 33611 | Enroute Computer Systems | Airfield Testing and Support | 8/30/2021 | 8/29/2026 | Reimbursable | \$0 | WFF | GSFC-21-33611 | Aeronautics, Institutional and Mission Support | View Signed Agreement |
| 1278 | 33594 | ABL Space Systems | Range Operational Support and Safety | 11/9/2021 | 11/8/2023 | Reimbursable | \$25,854 | WFF | GSFC-21-33320 | Science, Space Technology, Institutional and Mission Support | View Signed Agreement |
| 1279 | 33320 | ABL Space Systems | Aerospike Engine Engineering and Operational Support | 11/9/2021 | 11/8/2026 | Reimbursable | \$0 | WFF | GSFC-21-33320 | Science, Space Technology, Institutional and Mission Support | View Signed Agreement |
| 1280 | 33131 | Salisbury University | Test Weather Station (MESONET) system for automated weather and environmental monitoring. | 11/12/2020 | 11/11/2025 | Non-Reimbursable | \$102,500 | WFF | GSFC-20-33131 | Science | View Signed Agreement |

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| 1281 | 32608 | ROCKET LAB USA | Range Services | 7/8/2021 | 7/7/2026 | Reimbursable | \$0 | WFF | GSFC-21-32608 | Science | View Signed Agreement |
| 1282 | 32318 | Blue Ridge Research and Consulting, LLC | Improving Rocket Launch Acoustic Models and Interpreting Raw Acoustical Data | 5/1/2020 | 4/30/2025 | Non-Reimbursable | \$27,290 | WFF | GSFC-20-32318 | Science | View Signed Agreement |
| 1283 | 25541 | Virginia Commercial Space Flight Authority | Operations and Activities for the Unmanned Aerial System Runway | 1/9/2018 | 9/20/2025 | Reimbursable | \$778,250 | WFF | GSFC-17-25541 | Aeronautics | View Signed Agreement |
| 1284 | 39303 | BLUE ORIGIN, LLC | Annex to WSTF Testing, Training Analysis, and Technical Expertise (Materials, Fluids, Components) for NASA-STD-6001 Test 1, Test 4 and Test 7 | 6/24/2022 | 6/23/2027 | Reimbursable | \$410,275 | WSTF | SAA-RA-22-36236-02 | Aeronautics | View Signed Agreement |
| 1285 | 39116 | NORTHROP GRUMMAN | Hypervelocity Testing in Support of Northrop Grumman Corporation Space Systems | 7/27/2023 | 7/27/2024 | Reimbursable | \$46,634 | WSTF | SAA-RA-23-39116 | Aeronautics | View Signed Agreement |
| 1286 | 38763 | THE BOEING COMPANY | Annex 4 to remove and replace valves on R40 thrusters | 6/5/2023 | 6/4/2025 | Reimbursable | \$536,597 | WSTF | SAA-RA-18-28204 | Aeronautics | View Signed Agreement |
| 1287 | 38561 | WHA INTERNATIONAL, INC | Annex to WSTF Testing, Training, Analysis, and Technical Expertise (Materials, Fluids, Components) | 4/1/2023 | 4/1/2024 | Reimbursable | \$34,469 | WSTF | SAA-RA-22-36170-03 | Space Technology | View Signed Agreement |
| 1288 | 38520 | Lunar Resources, Inc. | Fire Hazards in Oxygen Systems Training and Oxygen Compatibility Assessments | 6/6/2023 | 6/5/2028 | Reimbursable | \$205,178 | WSTF | SAA-RA-23-38519-01 | Space Technology | View Signed Agreement |
| 1289 | 38519 | Lunar Resources, Inc. | FOR TESTING, ANALYSIS ACTIVITIES, AND EXCHANGE OF TECHNICAL EXPERTISE | 6/6/2023 | 6/5/2028 | Reimbursable | \$0 | WSTF | SAA-RA-23-38519 | Human Exploration and Operations | View Signed Agreement |
| 1290 | 37939 | Radian Aerospace Inc. | NASA-STD-2007-213740 Oxygen Compatibility Assessments / NASA-STD-6001 Flammability, Offgassing, and Compatibility Requirements | | 2/14/2028 | Reimbursable | \$315,520 | WSTF | SAA-RA-23-34938-01 | Human Exploration and Operations | View Signed Agreement |

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| 1291 | 37938 | Radian Aerospace Inc. | WSTF Testing, Analysis, and Technical Expertise (Materials, Fluids, Components) | 2/15/2023 | 2/14/2028 | Reimbursable | \$0 | WSTF | SAA-RA-23-37938 | Human Exploration and Operations | View Signed Agreement |
| 1292 | 37913 | Pacific Design Technologies | Propellant Exposure Testing and Analysis of Carbon Graphite Bearings | 7/26/2023 | 7/26/2025 | Reimbursable | \$37,836 | WSTF | SAA-RA-23-37913 | Human Exploration and Operations, Science | View Signed Agreement |
| 1293 | 37912 | Pacific Design Technologies | Testing, Analysis, Training, and Technical Expertise | 7/26/2023 | 7/26/2025 | Reimbursable | \$0 | WSTF | | Aeronautics | View Signed Agreement |
| 1294 | 37901 | Agile Space Industries | WSTF Training and Technical Expertise (Materials, Fluids, Components) | 2/7/2023 | 2/6/2028 | Reimbursable | \$959,517 | WSTF | SAA-RA-23-37900-01 | Human Exploration and Operations | View Signed Agreement |
| 1295 | 37900 | | TESTING, ANALYSIS, TRAINING, AND TECHNICAL EXPERTISE | 2/7/2023 | 2/6/2028 | Reimbursable | \$0 | WSTF | SAA-RA-23-37900 | Human Exploration and Operations | View Signed Agreement |
| 1296 | 37614 | ASTROBOTIC TECHNOLOGY, INC | Annex to Engineering Analysis and development for Commercial Lunar Lander and Payload Service A | 12/14/2022 | 12/14/2023 | Reimbursable | \$32,041 | WSTF | SAA8-1930516-07 | Human Exploration and Operations | View Signed Agreement |
| 1297 | 37612 | | WSTF Training and Technical Expertise (Materials, Fluids, Components) | 2/7/2023 | 2/6/2028 | Reimbursable | \$959,517 | WSTF | SAA-RA-23-37611-01 | Human Exploration and Operations | View Signed Agreement |
| 1298 | 37611 | FIREFLY AEROSPACE INC. | Testing, Analysis, Training, and Technical Expertise | 2/7/2023 | 2/6/2028 | Reimbursable | \$0 | WSTF | SAA-RA-23-37611 | Human Exploration and Operations | View Signed Agreement |
| 1299 | 37535 | | Annex to WSTF Testing, Training, Analysis, and Technical Expertise (Materials, Fluids, Components). | 10/11/2022 | 10/11/2023 | Reimbursable | \$19,742 | WSTF | SAA-RA-21-35607-02 | Human Exploration and Operations | View Signed Agreement |
| 1300 | 37357 | LOCKHEED MARTIN | Annex to Perform Propellant Testing and Analysis | 10/11/2022 | 8/15/2024 | Reimbursable | \$369,976 | WSTF | SAA8-2134560-02 | Human Exploration and Operations | View Signed Agreement |

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| 1301 | 36856 | BLUE ORIGIN, LLC | Annex to Engineering Analysis and Testing | 10/24/2022 | 2/8/2025 | Reimbursable | \$1,580,189 | WSTF | SAA-EA-20-29343-19 | Space Technology | View Signed Agreement |
| 1302 | 36675 | Blue Origin, LLC | Loan of NASA Owned Pressure Vessels and Transfer of Blue Origin Ground Test Results | 10/18/2022 | 10/17/2027 | Non-Reimbursable | \$21,476 | WSTF | SAA-RA-22-36675 | Human Exploration and Operations | View Signed Agreement |
| 1303 | 36628 | | Testing, Analysis, Training, and Technical Expertise (Materials, Fluids, Components) | 5/27/2022 | 5/26/2027 | Reimbursable | \$696,657 | WSTF | SAA-RA-22-36627-01 | Human Exploration and Operations | View Signed Agreement |
| 1304 | 36627 | STELLAR EXPLORATION, INC | Testing, Analysis, Training, and Technical Expertise (Materials, Fluids, Components) | 5/27/2022 | 5/26/2027 | Reimbursable | \$0 | WSTF | SAA-RA-22-36627 | Human Exploration and Operations | View Signed Agreement |
| 1305 | 36540 | RAYTHEON COMPANY | Next Generation Interceptor (NGI) Hot Fire Testing | 2/23/2023 | 8/23/2026 | Reimbursable | \$9,894,012 | WSTF | SAA-RA-22-36540 | Human Exploration and Operations | View Signed Agreement |
| 1306 | 36453 | Hypercomp Engineering Inc | Hypercomp Engineering Composite Overwrapped Pressure Vessel Damage Detection Training | 7/11/2022 | 7/10/2027 | Reimbursable | \$156,234 | WSTF | SAA-RA-22-36453 | Human Exploration and Operations | View Signed Agreement |
| 1307 | 36402 | Ursa Major Technologies | Annex to Rocket Engine Development Support | 10/30/2019 | 10/30/2024 | Reimbursable | \$732,574 | WSTF | SAA8-1931298-03 | Human Exploration and Operations | View Signed Agreement |
| 1308 | 36372 | AeroJet RocketDyne | TESTING, ANALYSIS, TRAINING AND TECHNICAL EXPERTISE (MATERIALS, FLUIDS, COMPONENTS) Support | 4/4/2023 | 4/3/2028 | Reimbursable | \$15,636 | WSTF | SAA-RA-22-36371-01 | Space Technology | View Signed Agreement |
| 1309 | 36371 | AEROJET ROCKETDYNE, INC | TESTING, ANALYSIS, TRAINING AND TECHNICAL EXPERTISE (MATERIALS, FLUIDS, COMPONENTS) Support | 4/4/2023 | 4/3/2028 | Reimbursable | \$0 | WSTF | SAA-RA-22-36371 | Space Technology | View Signed Agreement |
| 1310 | 36237 | BLUE ORIGIN, LLC | Training | 6/24/2022 | 6/23/2027 | Reimbursable | \$4,796,246 | WSTF | SAA-RA-22-36236-01 | Human Exploration and Operations | View Signed Agreement |

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| 1311 | 36236 | BLUE ORIGIN, LLC | WSTF Testing, Training Analysis, and Technical Expertise (Materials, Fluids, Components) | 6/24/2022 | 6/23/2027 | Reimbursable | \$0 | WSTF | SAA-RA-22-36236 | Human Exploration and Operations | View Signed Agreement |
| 1312 | 36171 | WHA INTERNATIONAL, INC | Component Testing, Goods, Services and Analysis | 3/4/2022 | 3/4/2027 | Reimbursable | \$699,995 | WSTF | SAA-RA-22-36170-01 | Human Exploration and Operations | View Signed Agreement |
| 1313 | 36170 | WHA INTERNATIONAL, INC | WSTF Testing, Training, Analysis, and Technical Expertise (Materials, Fluids, Components) | 3/4/2022 | 3/4/2027 | Reimbursable | \$0 | WSTF | SAA-RA-21-36170 | Human Exploration and Operations | View Signed Agreement |
| 1314 | 36163 | AXIOM SPACE, LLC | Flight / Sensitive System Specialized Training | 4/6/2022 | 4/6/2027 | Reimbursable | \$670,253 | WSTF | SAA-RA-22-36162-01 | Human Exploration and Operations | View Signed Agreement |
| 1315 | 36162 | AXIOM SPACE, LLC | Testing, Training, Analysis, and Technical Expertise | 4/6/2022 | 4/6/2027 | Reimbursable | \$0 | WSTF | SAA-RA-22-36162 | Human Exploration and Operations | View Signed Agreement |
| 1316 | 35722 | B/E Aerospace, d.b.a. Collins Aerospace, a unit of United Technologies Corporation | Annex to Collins Aerospace Oxygen and COPV Testing, Analysis and Training Activities | 3/2/2022 | 3/2/2025 | Reimbursable | \$41,514 | WSTF | SAA-RA-20-30648-02 | Human Exploration and Operations | View Signed Agreement |
| 1317 | 35607 | Space Exploration Technologies Corp. | WSTF Testing, Training, Analysis, and Technical Expertise (Materials, Fluids, Components). | 12/30/2021 | 12/30/2026 | Reimbursable | \$0 | WSTF | SAA-RA-21-35607 | Human Exploration and Operations | View Signed Agreement |
| 1318 | 34796 | Virgin Orbit, LLC | Composite Over-wrapped Pressure Vessel Damage Detection Visual Inspection Training | 10/14/2021 | 10/14/2026 | Reimbursable | \$423,485 | WSTF | SAA-RA-21-34796 | Human Exploration and Operations | View Signed Agreement |
| 1319 | 34328 | ZIN TECHNOLOGIES, INC | NASA-STD-2007-213740 Oxygen Compatibility Assessments / NASA-STD-6001 Flammability, Offgassing, and Compatibility Requirements | 5/6/2021 | 5/6/2026 | Reimbursable | \$184,831 | WSTF | SAA-RA-21-34327-01 | Human Exploration and Operations | View Signed Agreement |
| 1320 | 34327 | ZIN TECHNOLOGIES, INC | WSTF Testing, Training, Analysis, and Technical Expertise (Materials, Fluids, Components) | 5/6/2021 | 5/6/2026 | Reimbursable | \$0 | WSTF | SAA-RA-21-34327 | Human Exploration and Operations | View Signed Agreement |

| ROW N | O. PAM ID NO. | PARTNER NAME | TITLE/PURPOSE | SIGNATURE DATE | EXPIRATION DATE | TYPE OF AGREEMENT | TOTAL ESTIMATED VALUE | CENTER | CENTER TRACKING NUMBER (IF ANY) | EXPECTED AGENCY BENEFIT(S) | LINK TO SIGNED AGREEMENT |
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| 1321 | 34318 | AEROJET ROCKETDYNE, INC | Post Boost Propulsion System (PBPS) Static Hot-fire Testing | 7/20/2021 | 7/20/2025 | Reimbursable | \$4,744,231 | WSTF | SAA-RA-21-34318 | Human Exploration and Operations | View Signed Agreement |
| 1322 | 34307 | ILC Dover LP | NASA-STD-2007-213740 Oxygen Compatibility Assessments / NASA-STD-6001 Flammability, Offgassing, and Compatibility Requirements | 8/4/2021 | 8/4/2026 | Reimbursable | \$818,467 | WSTF | SAA-RA-21-34306-01 | Human Exploration and Operations | View Signed Agreement |
| 1323 | 34306 | ILC Dover LP | WSTF Testing, Training, Analysis, and Technical Expertise (Materials, Fluids, Components) | 8/4/2021 | 8/4/2026 | Reimbursable | \$0 | WSTF | SAA-RA-21-34306 | Human Exploration and Operations | View Signed Agreement |
| 1324 | 34081 | THE BOEING COMPANY | Annex 3 to Fabricate WSTF Designed Throat Plugs for R40B Thrusters | 10/26/2021 | 10/26/2023 | Reimbursable | \$93,299 | WSTF | SAA-RA-18-28204-03 | Institutional and Mission Support | View Signed Agreement |
| 1325 | 33315 | Northrop Grumman | Exposure and Mechanical Properties Testing of FEP Propellant Tank Diaphragm Material | 10/8/2021 | 10/8/2023 | Reimbursable | \$202,897 | WSTF | SAA-RA-21-33315 | Human Exploration and Operations | View Signed Agreement |
| 1326 | 32676 | THE BOEING COMPANY | STP3 R40b Hot Fire Testing | 4/29/2021 | 6/30/2025 | Reimbursable | \$9,943,911 | WSTF | SAA-RA-20-32676 | Human Exploration and Operations | View Signed Agreement |
| 1327 | 31581 | Infinite Composites Technologies | Annex for COPV Inspection and Evaluation | 5/5/2020 | 5/5/2025 | Reimbursable | \$420,799 | WSTF | SAA-RA-20-31363-02 | Human Exploration and Operations | View Signed Agreement |
| 1328 | 31364 | Infinite Composites Technologies | NASA-STD-2007-213740 Oxygen Compatibility Assessments / NASA-STD-6001 Flammability, Offgassing, and Compatibility Requirements | 5/5/2020 | 5/5/2025 | Reimbursable | \$1,013,196 | WSTF | SAA-RA-20-31363-01 | Human Exploration and Operations | View Signed Agreement |
| 1329 | 31363 | Infinite Composites Technologies | WSTF Testing, Training, Analysis, and Technical Expertise (Materials, Fluids, Components) | 5/5/2020 | 5/5/2025 | Reimbursable | \$0 | WSTF | SAA-RA-20-31363 | Human Exploration and Operations | View Signed Agreement |
| 1330 | 31188 | Intuitive Machines, LLC | NASA Standards 6001B Testing | 11/23/2020 | 11/23/2025 | Reimbursable | \$1,013,196 | WSTF | SAA-RA-20-31187-01 | Human Exploration and Operations | View Signed Agreement |

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| 1331 | 31187 | Intuitive Machines, LLC | WSTF Testing, Training, Analysis, and Technical Expertise (Materials, Fluids, Components) | 11/23/2020 | 11/23/2025 | Reimbursable | \$0 | WSTF | SAA-RA-20-31187 | Human Exploration and Operations | View Signed Agreement |
| 1332 | 30649 | B/E Aerospace, d.b.a.Collins Aerospace a uni of United Technologies Corporation | it NASA-STD-6001 Flammability, Offgassing, Compatibility Testing and Training | 3/31/2020 | 3/30/2025 | Reimbursable | \$487,655 | WSTF | SAA-RA-20-30648 | Human Exploration and Operations | View Signed Agreement |
| 1333 | 30648 | B/E Aerospace, d.b.a. Collins Aerospace, a unit of United Technologies Corporation | Collins Aerospace Oxygen and COPV Testing, Analysis and Training Activities | 3/31/2020 | 3/30/2025 | Reimbursable | \$0 | WSTF | SAA-RA-20-30648 | Human Exploration and Operations | View Signed Agreement |
| 1334 | 29610 | AS and D, LLC | NASA's Composite Overwrapped Pressure Vessel (COPV) Damage Detection Course (DDC) | 2/4/2019 | 2/4/2024 | Reimbursable | \$22,767 | WSTF | SAA-RA-19-29610 | Human Exploration and Operations | View Signed Agreement |
| 1335 | 28204 | THE BOEING COMPANY | Perform R40b thruster testing and provide test data results. | 9/13/2018 | 9/13/2025 | Reimbursable | \$0 | WSTF | SAA-RA-18-28204 | Institutional and Mission Support | View Signed Agreement |
| 1336 | 22154 | Celanese International Corporation | Celanese Chemical Division Process Enhancement Testing | 11/7/2018 | 11/7/2023 | Reimbursable | \$899,660 | WSTF | SAA-RA-18-22154 | Institutional and Mission Support | View Signed Agreement |