ROW NO.	7 PAM ID NUMBE		PARTNER NAME	TITLE/PURPOSE		EXPIRATION DATE	TYPE OF AGREEMENT	TOTAL ESTIMATED DOLLAR VALUE CENTER OF NASA RESOURCES	CENTER TRACKING NUMBER (IF ANY)	EXPECTED AGENCY BENEFIT(S)	LINK TO SIGNED AGREEMENT
	1 355	5583 \$		For Use of NASA SOFIA B747 Flight Simulator	1/31/2022	1/31/2025	Reimbursable	\$67,500 AFRC		Aeronautics	View Signed Agreement
	2 353	5377 \$	SpinLaunch Inc.	SpinLaunch Test Flight FO Rideshare	3/17/2022	3/17/2024	Non-Reimbursable	\$65,294 AFRC		Space Technology	View Signed Agreement
	3 350	5005 (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
	4 350	5004 L		Advanced Air Mobility Technology Research Demonstration Activities	7/8/2021	7/8/2026	Non-Reimbursable	\$0 AFRC		Aeronautics	View Signed Agreement
	5 350	5003 .		Annex to Participate in the NASA UAM Grand Challenge	7/8/2021	7/8/2026	Non-Reimbursable	\$592,104 AFRC		Aeronautics	View Signed Agreement
	6 350	5001 F	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

ROW P NO. N	PAM ID IUMBER	PARTNER NAME	TITLE/PURPOSE	SIGNATURE DATE	EXPIRATION DATE		TOTAL ESTIMATED DOLLAR VALUE OF NASA RESOURCES	CENTER		LINK TO SIGNED AGREEMENT
7	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
8	34999		Advanced Air Mobility Technology Research and Demonstration Activities	7/6/2021	7/6/2026	Non-Reimbursable	\$0	AFRC	Aeronautics	View Signed Agreement
9	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
10	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
11	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
12	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

	PAM ID NUMBER	PARTNER NAME	TITLE/PURPOSE	SIGNATURE DATE	EXPIRATION DATE		TOTAL ESTIMATED DOLLAR VALUE OF NASA RESOURCES	CENTER	EXPECTED AGENCY BENEFIT(S)	LINK TO SIGNED AGREEMENT
13	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
14	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
15	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
16	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
17	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
18	34988	3 SkyGrid, LLC	Advanced Air Mobility Technology Research and Demonstration Activities	7/6/2021	7/6/2026	Non-Reimbursable	\$0	AFRC	Aeronautics	View Signed Agreement

	PAM ID NUMBER	PARTNER NAME	TITLE/PURPOSE	SIGNATURE DATE	EXPIRATION DATE	TYPE OF AGREEMENT	TOTAL ESTIMATED DOLLAR VALUE OF NASA RESOURCES	CENTER	CENTER TRACKING NUMBER (IF ANY)		LINK TO SIGNED AGREEMENT
19	3498	7 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
20	3498	6 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
21	3498	5 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
22	2 3498	4 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
23	3498	3 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
24	3498	2 Avision, Inc	Advanced Air Mobility Technology Research and Demonstration Activities	7/6/2021	7/6/2026	Non-Reimbursable	\$0	AFRC		Aeronautics	View Signed Agreement

	PAM ID NUMBER	PARTNER NAME	TITLE/PURPOSE	SIGNATURE DATE	EXPIRATION DATE		TOTAL ESTIMATED DOLLAR VALUE OF NASA RESOURCES	CENTER	CENTER TRACKING NUMBER (IF ANY)		LINK TO SIGNED AGREEMENT
25	3498 [.]	1	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
26	3498(0 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
27	34979	9 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
28	34978	8 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
29	3497	7 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
30	3444;	³ 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

ROW NO.	PAM ID NUMBER	PARTNER NAME	TITLE/PURPOSE	SIGNATURE DATE	EXPIRATION DATE	TYPE OF AGREEMENT	TOTAL ESTIMATED DOLLAR VALUE OF NASA RESOURCES	CENTER	CENTER TRACKING NUMBER (IF ANY)		LINK TO SIGNED AGREEMENT
3.		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
32	2 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
3:	3 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
34	4 33844	University Enterprises Corporation at California State University San Bernarndino	To Evaluate, Prototype, and Conduct Market Research on technologies within the Technology Transfer Patent Portfolio	3/1/2022	3/1/2023	Non-Reimbursable	\$14,500	AFRC		Aeronautics	View Signed Agreement
3:	33843	University Enterprises Corporation at California State University San Bernarndino	Non-Reimburseable Space Act Agreement For Collaborative Opportunities for Technology Development	3/1/2022	3/1/2027	Non-Reimbursable	\$0	AFRC		Aeronautics	View Signed Agreement
3(6 33568	Federal Aviation Administration	Annex to Non-Reimbursable Umbrella between NASA AFRC and FAA for Initial Independent Airworthiness Development and Flight Test Evaluation	4/20/2021	4/20/2023	Non-Reimbursable	\$11,968	AFRC		Aeronautics	View Signed Agreement

ROW NO.	PAM ID NUMBER	PARTNER NAME	TITLE/PURPOSE	SIGNATURE DATE	EXPIRATION DATE	TYPE OF AGREEMENT	TOTAL ESTIMATED DOLLAR VALUE OF NASA RESOURCES	CENTER	CENTER TRACKING NUMBER (IF ANY)		LINK TO SIGNED AGREEMENT
3	7 33352	Logistic Air, LLC	For Use of NASA SOFIA B747 Flight Simulator	10/19/2021	10/19/2024	Reimbursable	\$27,000	AFRC		Aeronautics	View Signed Agreement
3	3 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
3	9 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
4) 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
4	1 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
4.	2 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

ROW NO.	7 PAM ID NUMBER	PARTNER NAM	E TITLE/PURPOSE	SIGNATURE DATE	EXPIRATION DATE	TYPE OF AGREEMENT	TOTAL ESTIMATED DOLLAR VALUE OF NASA RESOURCES	CENTER		LINK TO SIGNED AGREEMENT
4	3 3308	1 The University of Texas	North Grand Challenge - Development Test Airspace Annex	2/3/2020	2/3/2025	Non-Reimbursable	\$678,932	AFRC	Aeronautics	View Signed Agreement
4	4 33080) The University of Texas	North Participation in the NASA UAM Grand Challenge	2/3/2020	2/3/2025	Non-Reimbursable	\$0	AFRC	Aeronautics	View Signed Agreement
4	5 33079	9 Uber Technologie	es, Inc Airspace Annex	2/3/2020	2/3/2025	Non-Reimbursable	\$678,932	AFRC	Aeronautics	View Signed Agreement
4	6 3307	3 Uber Technologie	es, Inc Challenge	2/3/2020	2/3/2025	Non-Reimbursable	\$0	AFRC	Aeronautics	View Signed Agreement
4	7 3307	6 Prodentity, LLC	Grand Challenge Vehicle Provider Inforr Exchange Annex	mation 2/3/2020	2/3/2025	Non-Reimbursable	\$592,104	AFRC	Aeronautics	View Signed Agreement
4	8 3307	5 Prodentity, LLC	Participation in the NASA UAM Grand Challenge	2/3/2020	2/3/2025	Non-Reimbursable	\$0	AFRC	Aeronautics	View Signed Agreement

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4	9 33073	OneSky Systems Inc	Grand Challenge - Development Test Airspace Annex	2/3/2020	2/3/2025	Non-Reimbursable	\$678,932	AFRC	Aeronautics	View Signed Agreement
5) 33072	OneSky Systems Inc	Participation in the NASA UAM Grand Challenge	2/3/2020	2/3/2025	Non-Reimbursable	\$0	AFRC	Aeronautics	View Signed Agreement
5	1 33065	NFT, Inc	Grand Challenge Vehicle Provider Information Exchange Annex	2/3/2020	2/3/2025	Non-Reimbursable	\$592,104	AFRC	Aeronautics	View Signed Agreement
5	2 33064	NFT, Inc	Participation in the NASA UAM Grand Challenge	2/3/2020	2/3/2025	Non-Reimbursable	\$0	AFRC	Aeronautics	View Signed Agreement
5	3 33063	Metron Aviation, Inc	Grand Challenge - Development Test Airspace Annex	2/3/2020	2/3/2025	Non-Reimbursable	\$678,932	AFRC	Aeronautics	View Signed Agreement
5	4 33062	Metron Aviation, Inc	Participation in the NASA UAM Grand Challenge	2/3/2020	2/3/2025	Non-Reimbursable	\$0	AFRC	Aeronautics	View Signed Agreement

	PAM ID NUMBER	PARTNER NAME	TITLE/PURPOSE	SIGNATURE DATE	EXPIRATION DATE		TOTAL ESTIMATED DOLLAR VALUE OF NASA RESOURCES	CENTER	CENTER TRACKING NUMBER (IF ANY)		LINK TO SIGNED AGREEMENT
55	3305	9 GeoRq LLC	Grand Challenge - Development Test Airspace Annex	2/3/2020	2/3/2025	Non-Reimbursable	\$678,932	AFRC		Aeronautics	View Signed Agreement
56	3305	8 GeoRq LLC	Participation in the NASA UAM Grand Challenge	2/3/2020	2/3/2025	Non-Reimbursable	\$0	AFRC		Aeronautics	View Signed Agreement
57	3305	7 Ellis & Associates	Grand Challenge - Development Test Airspace Annex	2/3/2020	2/3/2025	Non-Reimbursable	\$678,932	AFRC		Aeronautics	View Signed Agreement
58	3 3305	6 Ellis & Associates	Participation in the NASA UAM Grand Challenge	2/3/2020	2/3/2025	Non-Reimbursable	\$0	AFRC		Aeronautics	View Signed Agreement
59	3305	5 Avision, Inc	Grand Challenge - Development Test Airspace Annex	2/3/2020	2/3/2025	Non-Reimbursable	\$678,932	AFRC		Aeronautics	View Signed Agreement
60	3305	4 Avision, Inc	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 NUMBER	PARTNER NAME	TITLE/PURPOSE	SIGNATURE DATE	EXPIRATION DATE	TYPE OF AGREEMENT	TOTAL ESTIMATED DOLLAR VALUE OF NASA RESOURCES			LINK TO SIGNED AGREEMENT
6	33039	ARINC Incorporated	Grand Challenge - Development Test Airspace Annex	2/3/2020	2/3/2025	Non-Reimbursable	\$678,932	AFRC	Aeronautics	View Signed Agreement
6	2 33038	ARINC Incorporated	Participation in the NASA UAM Grand Challenge	2/3/2020	2/3/2025	Non-Reimbursable	\$0	AFRC	Aeronautics	View Signed Agreement
6	3 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
6	4 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
6	5 33035	AiRXOS, Inc	Grand Challenge - Development Test Airspace Annex	3/2/2020	3/2/2025	Non-Reimbursable	\$678,932	AFRC	Aeronautics	View Signed Agreement
6	33034	AiRXOS, Inc	Participation in the NASA UAM Grand Challenge	3/2/2020	3/2/2025	Non-Reimbursable	\$0	AFRC	Aeronautics	View Signed Agreement

ROW NO.	PAM ID NUMBEF	PARTNER NAME	TITLE/PURPOSE	SIGNATURE DATE	EXPIRATION DATE	TYPE OF AGREEMENT	TOTAL ESTIMATED DOLLAR VALUE OF NASA RESOURCES		CENTER TRACKING NUMBER (IF ANY)	EXPECTED AGENCY BENEFIT(S)	LINK TO SIGNED AGREEMENT
67	7 3303	33 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
68	3 3303	32 Airmap, Inc	Participation in the NASA UAM Grand Challenge	2/3/2020	2/3/2025	Non-Reimbursable	\$0	AFRC		Aeronautics	View Signed Agreement
69	9 3303	31 Joby Aviation, Inc	Grand Challenge - Development Test Flight Annex	2/19/2020	2/19/2025	Non-Reimbursable	\$592,104	AFRC		Aeronautics	View Signed Agreement
70) 3303	30 Joby Aviation, Inc	Participation in the NASA UAM Grand Challenge	2/19/2020	2/19/2025	Non-Reimbursable	\$0	AFRC		Aeronautics	View Signed Agreement
71	3275	57 AeroVironment, Inc.	Small Unmanned Aircraft System (SUAS)Testing and Training	11/10/2020	11/10/2025	Reimbursable	\$116,000	AFRC		Aeronautics	View Signed Agreement
72	2 3248	39 Virgin Galactic Holdings	Collaborative Medical Device Development in Response to COVID-19 Pandemic	4/22/2020	4/22/2023	Non-Reimbursable	\$0	AFRC		Space Technology	View Signed Agreement

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7:	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
74	32338	Fenix Space, Inc.	Development of Tow-glider Launch Platform	5/27/2020	5/27/2025	Reimbursable	\$0	AFRC	Aeronautics	View Signed Agreement
75	5 32162	Learjet, Inc	Flight Test Support of Global 7500 Business Jet	5/17/2021	5/17/2022	Reimbursable	\$664,765	AFRC	Aeronautics	View Signed Agreement
76	32161	Learjet, Inc	Business Jet Flight Test Support	5/17/2021	5/17/2026	Reimbursable	\$0	AFRC	Aeronautics	View Signed Agreement
77	31875	Stratolaunch, LLC	Annex to Support Flight Operations of the Stratolaunch Carrier Aircraft	6/18/2020	2/13/2025	Reimbursable	\$225,000	AFRC	Aeronautics	View Signed Agreement
78	3 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

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79	9 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
80) 31588	Lockheed Martin	Annex to NASA ER-2 Low Power Laser Demonstrator (LPLD)	1/8/2020	11/27/2022	Reimbursable	\$346,453	AFRC		Aeronautics	View Signed Agreement
8′	1 30284	General Electric Aviation	General Electric Aviation Use of NASA SOFIA B747 Flight Simulator	5/8/2019	5/8/2024	Reimbursable	\$90,000	AFRC		Aeronautics, Science	View Signed Agreement
82	2 30193	Air Force Research Laboratory	Collaborative Research, Development and Testing Activities related to Automatic Collision Avoidance Technology and Resilient Autonomy.	7/9/2019	7/9/2022	Non-Reimbursable	\$37,488	AFRC		Aeronautics	View Signed Agreement
83	3 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
84	4 30149	Federal Aviation Administration	Non-Reimbursable Umbrella between NASA AFRC and FAA for Development of Flight Safety and Autonomous System Technologies and Processes	6/26/2019	6/26/2024	Non-Reimbursable	\$0	AFRC		Aeronautics	View Signed Agreement

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85	5 27967	Aerovironment, Inc	Unmanned Aircraft Systems (UAS) Testing	11/14/2018	11/14/2023	Reimbursable	\$0 AFRC		Aeronautics	View Signed Agreement
86	6975	Bell Textron, Inc	Hybrid-Electric System Integration, Development and Testing Activities	8/8/2019	8/8/2022	Non-Reimbursable	\$1,519,555 AFRC		Aeronautics	View Signed Agreement
87	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
88	3 25811	Lockheed Martin	NASA ER-2 Low Power Laser Demonstrator (LPLD)	11/27/2017	11/27/2022	Reimbursable	\$0 AFRC		Science	View Signed Agreement
89	9 25562	Safety Technology Holdings, Incorporated	Reimbursable Space Act Agreement to support the test setup and evaluation of the FOSS technology in anthropomorphic test device.	12/7/2017	12/7/2022	Reimbursable	\$10,090 AFRC		Technology Transfer	View Signed Agreement
90) 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

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91	35884	4 Arrow Tech Associates	Annex One under Reimbursable Umbrella Space Act Agreement between NASA Ames Research Center and Arrow Tech Associates for Wind Tunnel Testing	3/9/2022	3/9/2023	Reimbursable	\$420,000	ARC	SAA2-403674-1	Aeronautics	View Signed Agreement
92	2 35883		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
93	3 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	12/28/2021	12/28/2022	Reimbursable	\$395,158	ARC	SAA2-403669-1	Space Technology	View Signed Agreement
94	35784		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
95	35783	3 Inversion Space	Annex One under Reimbursable Umbrella Space Act Agreement between NASA Ames Research Center and Inversion Space for Support of a Re-Entry Capsule	2/25/2022	2/25/2023	Reimbursable	\$781,949	ARC	SAA2-403668-1	Space Technology	View Signed Agreement
96	35782	2 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

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97	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
98	35574	LAWRENCE LIVERMORE NATIONAL LABORATORY, LLC	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
99	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
100	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		12/28/2026	Reimbursable	\$0 ARC	SAA2-403654	Human Exploration and Operations	View Signed Agreement
101	35390	Agscent USA	Reimbursable Space Act Agreement between NASA Ames Research Center and Agscent USA for Evaluation of Sensor for Use in Livestock	9/27/2021	9/27/2022	Reimbursable	\$30,151 ARC	SAA2-403652	Human Exploration and Operations, Technology Transfer	View Signed Agreement
102	35387	Blue Origin, LLC	Annex Four 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	3/24/2022	7/13/2023	Reimbursable	\$179,902 ARC	SAA2-403403	Human Exploration and Operations	View Signed Agreement

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103	3530	0 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
104	3529	9 Stratolaunch, Inc.	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
105	3526	7 Gulfstream Aerospace Corporation	Annex Two to Reimbursable Umbrella Space Act Agreement between NASA Ames and Gulfstream Aerospace Corporation for Wind Tunnel Testing	9/13/2021	9/13/2022	Reimbursable	\$2,000,000	ARC	SAA2-403564-2	Aeronautics	View Signed Agreement
106	3526	Dallas/Fort Worth 6 International Airport Board	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
107	3491	0 Small Payload Ride Share Association	Nonreimbursable Space Act Agreement between NASA Ames Research Center and the Small Payload Ride Share Association for Co-hosting the 2021 Small Payload Ride Share Virtual Symposium	7/8/2021	7/8/2022	Non-Reimbursable	\$57,997	ARC	SAA2-403632	Human Exploration and Operations	View Signed Agreement
108	3489	9 DYNETICS CORP	Annex One under Reimbursable Space Act Umbrella Agreement between NASA Ames Research Center and the Dynetics, Inc. for Wind Tunnel Testing	10/12/2021	10/12/2022	Reimbursable	\$529,692	ARC	SAA2-403636-1	Aeronautics	View Signed Agreement

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109	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
11(34812	Skydio, Inc.	Annex One to Non-Reimbursable Space Act Umbrella Agreement between NASA Ames Research Center and the Skydio Inc. for Autonomous UAS Technology Research and Development	9/1/2021	9/1/2023	Non-Reimbursable	\$278,220	ARC	SAA2-403630-1	Aeronautics	View Signed Agreement
11'	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	9/1/2021	9/1/2026	Non-Reimbursable	\$0	ARC	SAA2-403630	Aeronautics	View Signed Agreement
112	2 34678	Microsoft Corporation	Annex One under Non-Reimbursable Space Act Umbrella Agreement between NASA Ames Research Center and Microsoft Corporation for Cloud-Base Simulation Platform Prototype	7/16/2021	1/16/2023	Non-Reimbursable	\$839,441	ARC	SAA2-403624-1	Aeronautics	View Signed Agreement
113	34677	Microsoft Corporation	Non-Reimbursable Space Act Umbrella Agreement between NASA Ames Research Center and Microsoft Corporation for Cloud- Base Simulation Platform Prototype	7/16/2021	7/16/2026	Non-Reimbursable	\$0	ARC	SAA2-403624	Aeronautics	View Signed Agreement
114	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

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115	3452 ⁻	1 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
116	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
117	34508	3 Skycorp, Inc	Reimbursable Space Act Agreement between NASA Ames Research Center and Skycorp, Inc. for Testing Support at the Engineering Evaluation Laboratory	9/7/2021	9/7/2022	Reimbursable	\$18,329	ARC	SAA2-403616	Human Exploration and Operations	View Signed Agreement
118	3447 [.]	1 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
119	3447() 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
120	34263	3 The Boeing Company	Annex 2 under Reimbursable Umbrella Space Act Agreement between NASA Ames Research Center and the Boeing Company for Wind Tunnel Testing	4/20/2024	4/26/2022	Reimbursable	\$4,032,301	ARC	SAA2-403460-2	Aeronautics	View Signed Agreement

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121	34262	Northrop Grumman Corporation	Annex Two to the Reimbursable Space Act Umbrella Agreement between NASA Ames Research Center and Northrop Grumman Corporation for Wind Tunnel Testing	4/28/2021	4/28/2022	Reimbursable	\$3,484,784	ARC	SAA2-403514-2	Aeronautics	View Signed Agreement
122	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	11/19/2022	Non-Reimbursable	\$21,502	ARC	SAA2-403517-2	Space Technology	View Signed Agreement
123	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	2/8/2023	Non-Reimbursable	\$2,400,475	ARC	SAA2-403607-1	Education and/or Public Engagement	View Signed Agreement
124	34094	Chabot Space & Science Center	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
125	33913	KAI, LLC	Non-Reimbursable Space Act Agreement between NASA Ames Research Center and KAI, LLC for the Development of Flexible Thermal Protection Systems Materials	2/19/2021	2/19/2023	Non-Reimbursable	\$13,524	ARC	SAA2-403603	Space Technology	View Signed Agreement
126	33289	Rocket Lab USA	Annex One under NRUSAA between NASA ARC and Rocket Lab for Space Science, Earth Science, and Engineering Research	10/14/2020	4/14/2022	Non-Reimbursable	\$79,329	ARC	SAA2-403591-1	Human Exploration and Operations, Science, Space Technology	View Signed Agreement

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127	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
128	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)		5/11/2026	Non-Reimbursable	\$1,869,333	ARC	SAA2-403590	Aeronautics	View Signed Agreement
129	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
130	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
131	33061	Sentinel Healthcare Corporation	Annex One under Nonreimbursable Umbrella Space Act Agreement between NASA Ames Research Center and Sentinel Healthcare for a Data-Driven Pandemic Response Management System	9/8/2020	9/8/2022	Non-Reimbursable	\$10,816	ARC	SAA2-403585-1	Human Exploration and Operations	View Signed Agreement
132	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

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13:	3 32994	Lawrence Livermore National Security, LLC	Annex Two under RUSAA between NASA ARC and Lawrence Livermore National Security, LLC for Ames Vertical Gun Range Testing for Fundamental Physics	4/5/2021	4/5/2023	Reimbursable	\$184,940	ARC	SAA2-403582-2	Science, Space Technology	View Signed Agreement
134	4 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
13	5 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
136	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
137		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
138		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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139	32736	AMERICA INC	Annex 2 under RUSAA between NASA ARC and Nissan North America for Research and Development in Robotic Technologies	6/12/2020	6/12/2022	Reimbursable	\$796,432	ARC	SAA2-403545-2	Aeronautics, Space Technology	View Signed Agreement
140	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
141	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
142	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
143	32574		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	\$182,296	ARC	SAA2-403565	Human Exploration and Operations	View Signed Agreement
144	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	\$93,399	ARC	SAA2-403536-1	Aeronautics, Education and/or Public Engagement	View Signed Agreement

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145	32522	Gulfstream Aerospace	Annex one under Reimbursable Umbrella Space Act Agreement between NASA Ames and Gulfstream Aerospace Corporation for Wind Tunnel Testing	8/15/2021	8/15/2022	Reimbursable	\$1,000,000	ARC	SAA2-403564-1	Aeronautics	View Signed Agreement
146	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
147	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
148	32345	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
149	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
150	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	3/1/2021	3/1/2026	Non-Reimbursable	\$0	ARC	SAA2-403551	Aeronautics	View Signed Agreement

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151	32210	UNIVERSITY	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
152	32209	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
153	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	12/31/2022	Reimbursable	\$1,830,898	ARC	SAA2-403549	Human Exploration and Operations, Space Technology	View Signed Agreement
154	31973	NISSAN NORTH AMERICA, INC	Annex 1 between NASA ARC and Nissan North America for Distributed Robotics Technology and Integrated Systems	6/12/2020	6/12/2022	Reimbursable	\$737,072	ARC	SAA2-403545-1	Space Technology	View Signed Agreement
155	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
156	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

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157	31896	6 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
158	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
159	31848	3 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	4/16/2020	4/16/2023	Non-Reimbursable	\$62,229	ARC	SAA2-403528-1	Space Technology	View Signed Agreement
160	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
161	31788	STATE OF 3 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
162	31732	2 University of Guam	Reimbursable Space Act Agreement between NASA Ames Research Center and the University of Guam for Mapping of Guam's Priority Coral Reefs	5/15/2021	5/15/2022	Reimbursable	\$117,000	ARC	SAA2-403524	Science	View Signed Agreement

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163	31474	4 Uber Technologies Inc	Annex between the National Aeronautics and Space Administration Ames Research Center and Uber Technologies Inc under Space Act Umbrella Agreement No. 27889, SAA2- 403420 (Annex Number Two)	2/3/2020	2/3/2023	Non-Reimbursable	\$1,463,871	ARC	SAA2-403420-2	Aeronautics	View Signed Agreement
164	31447	7 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	11/19/2022	Non-Reimbursable	\$0	ARC	SAA2-403517	Technology Transfer	View Signed Agreement
165	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
166	3105	7 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
167	31044	4 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
168	30884	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

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169	30837		Reimbursable Umbrella Space Act Agreement between NASA ARC and Advanced Technologies Group, Inc. for Wind Tunnel Testing		12/20/2024	Reimbursable	\$0	ARC	SAA2-403500	Aeronautics	View Signed Agreement
170	30730	WASHINGTON	Annex between the National Aeronautics and Space Administration Ames Research Center and the University of Washington Under Space Act Umbrella Agreement Number 30729, SAA2-403496 (Annex Number One)	8/27/2019	8/27/2022	Reimbursable	\$70,000	ARC	SAA2-403496-1	Space Technology	View Signed Agreement
171	30729	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		8/27/2024	Reimbursable	\$0	ARC	SAA2-403496	Space Technology	View Signed Agreement
172		SAN JOSE STATE UNIVERSITY	Annex One to Nonreimbursable Umbrella Space Act Agreement between the National Aeronautics and Space Administration Ames Research Center and San Jose State University to Facilitate Development of Nano- Satellite Sub-Systems and Sensors	6/20/2019	6/20/2022	Non-Reimbursable	\$19,719	ARC	SAA2-403280 -1	Technology Transfer	View Signed Agreement
173	30598		Nonreimbursable Umbrella Space Act Agreement between the National Aeronautics and Space Administration Ames Research Center and San Jose State University for TechEdSat N Academia Infusion	6/20/2019	6/20/2022	Non-Reimbursable	\$0	ARC	SAA2-403280	Space Technology	View Signed Agreement
174	. 30452	Leiand 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		12/16/2025	Reimbursable	\$0	ARC	SAA2-403497	Education and/or Public Engagement	View Signed Agreement

ROW F NO. N	PAM ID NUMBER	PARTNER NAME		SIGNATURE DATE	EXPIRATION DATE	TYPE OF AGREEMENT	TOTAL ESTIMATED DOLLAR VALUE OF NASA RESOURCES	CENTER	CENTER TRACKING NUMBER (IF ANY)	EXPECTED AGENCY BENEFIT(S)	LINK TO SIGNED AGREEMENT
175	30437	Rockwell Collins, Inc	Nonreimbursable Space Act Agreement between the National Aeronautics and Space Administration Ames Research Center and Rockwell Collins, Inc. for Human-Autonomy Teaming Research	8/26/2019	8/26/2023	Non-Reimbursable	\$450,224	ARC	SAA2-403491	Aeronautics	View Signed Agreement
176	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
177	30167	7 Airxos	Non-Reimbursable Space Act Agreement Between Airxos and NASA Ames for Unmanned Aircraft Systems Traffic Management.	4/5/2019	4/5/2022	Non-Reimbursable	\$24,585	ARC	SAA2-403422	Aeronautics	View Signed Agreement
178	29856	Texas A&M Engineering Experiment Station	Non-Reimbursable Space Act Agreement Between NASA Ames and Texas AM Engineering Experiment Station for Investigating Additive Manufacturing of Thermal Protection Material	2/20/2019	2/20/2023	Non-Reimbursable	\$32,675	ARC	SAA2-403455	Space Technology	View Signed Agreement
179	29462	2 Voltex Technology, Inc.	Reimbursable Space Act Agreement between the National Aeronautics and Space Administration Ames Research center and Voltex Technology to Explore New Production Methods for Sensor Arrays	7/31/2019	1/31/2023	Reimbursable	\$27,673	ARC	SAA2-403466	Space Technology	View Signed Agreement
180	29399	SkyTran Inc.	Annex One under Reimbursable Umbrella Space Act Agreement between NASA Ames Research Center and Skytran, Inc. for Personal Rapid Transport System	7/2/2021	1/2/2023	Reimbursable	\$310,755	ARC	SAA2-403462-1	Aeronautics	View Signed Agreement

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181	29398	Skylran 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
182	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
183	28878	AIRLINES COMPANY	Non-Reimbursable Space Act Agreement between NASA Ames Research Center and Southwest Airlines for Development and Evaluation of an Air Traffic Management System	7/12/2019	6/12/2022	Non-Reimbursable	\$225,914	ARC	SAA2-403448	Aeronautics	View Signed Agreement
184	28389	vveapons Center	Reimbursable Umbrella Interagency Agreement Between the National Aeronautics and Space Administration Ames Research Center and Air Force Nuclear Weapons Center Nuclear Weapons Acquisition Division for Wind Tunnel Testing	6/26/2018	6/26/2023	Reimbursable	\$0	ARC	SAA2-403427	Aeronautics	View Signed Agreement
185	27890	Uber Technologies Inc	Annex One to the Non-Reimbursable Umbrella Space Act Agreement Between the National Aeronautics and Space Administration Ames Research Center and Uber Technologies Inc for Initial Modeling and Simulations of Urban Air Mobility Operations for Airspace Access and Scalability		5/4/2023	Non-Reimbursable	\$604,820	ARC	SAA2-403420-1	Aeronautics	View Signed Agreement
186	27889	Uber Technologies Inc	Non-Reimbursable Umbrella Between the National Aeronautics and Space Administration Ames Research Center and Uber Technologies Inc for Research, Development, Testing and Evaluation of an Urban Air Mobility (UAM) System	5/4/2018	5/4/2023	Non-Reimbursable	\$0	ARC	SAA2-403420	Aeronautics	View Signed Agreement

ROW P/ NO. N	AM ID UMBER	PARTNER NAME	TITLE/PURPOSE	SIGNATURE DATE	EXPIRATION DATE	TYPE OF AGREEMENT	TOTAL ESTIMATED DOLLAR VALUE OF NASA RESOURCES	CENTER	CENTER TRACKING NUMBER (IF ANY)	EXPECTED AGENCY BENEFIT(S)	LINK TO SIGNED AGREEMENT
187	27872	Space Exploration Technologies Corp.	Reimbursable Umbrella Space Act Agreement Between the National Aeronautics and Space Administration Ames Research Center and Space Exploration Technologies Corp to Support SpaceX Commercial Space Transportation Development	6/6/2018	6/6/2023	Reimbursable	\$0	ARC	SAA2-403419	Human Exploration and Operations	View Signed Agreement
188	27787	GOOGLE, LLC	Non-Reimbursable Space Act Agreement Between the National Aeronautics and Space Administration Ames Research Center and Google LLC to Analyze the Utilization and Assessment of Googles Emerging Quantum Processors	7/3/2018	7/3/2023	Non-Reimbursable	\$680,962	ARC	SAA2-403407	Science	View Signed Agreement
189	27617	Blue Origin, LLC	Annex One to the Reimbursable Umbrella Space Act Agreement Between the National Aeronautics and Space Administration Ames Research Center and Blue Origin, LLC for Thermal Protection System Material Design Support for Blue Origin	7/13/2018	7/13/2023	Reimbursable	\$568,000	ARC	SAA2-403403-1	Human Exploration and Operations	View Signed Agreement
190	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	7/13/2023	Reimbursable	\$0	ARC	SAA2-403403	Human Exploration and Operations	View Signed Agreement
191	27441	AgustaWestland Philadelphia Corporation	Reimbursable Umbrella Space Act Agreement Between the National Aeronautics and Space Administration Ames Research Center and Agusta Westland Philadelphia Corporation for Wind Tunnel Testing	1/29/2018	1/29/2023	Reimbursable	\$0	ARC	SAA2-403286	Aeronautics	View Signed Agreement
192	26743	INTEL CORP	Non-Reimbursable Space Act Agreement between the National Aeronautics and Space Administration Ames Research Center and Intel Corporation for Collaboration to Evaluate NASA's Computational Performance	9/20/2017	9/19/2022	Non-Reimbursable	\$106,091	ARC	SAA2-403249	Science	View Signed Agreement

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193	36156	NATIONAL TECHNOLOGY AND ENGINEERING SOLUTIONS OF SANDIA, LLC	Engineering and Testing Services	1/18/2022	1/18/2024	Reimbursable	\$222,526	GRC	SAA3-1702	Aeronautics, Space Technology	View Signed Agreement
194	36012	2 Dayton Development Coalition	2022 Ohio Space Forum	3/15/2022	3/15/2023	Non-Reimbursable	\$5,026	GRC	SAA3-1713	Education and/or Public Engagement	View Signed Agreement
195	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
196	3568	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
197	35263	3 Space Exploration Technology Corp	2624 Payload Attach Fitting Model Testing (Annex No. 1)	9/21/2021	9/21/2022	Reimbursable	\$36,226	GRC	SAA3-1708-1	Human Exploration and Operations	View Signed Agreement
198	35262	2 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

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199	35125	Federal Reserve Bank of Cleveland	Annex No. 1 under NonReimbursable Umbrella Agreement Science, Technology, Engineering, and Mathematics Outreach	2/24/2022	2/24/2023	Non-Reimbursable	\$14,402	GRC	SAA3-1699-01	Education and/or Public Engagement	View Signed Agreement
200	35124	Federal Reserve Bank	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
201	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
202	34788	Cleveland State University	System Reliability Models for Revolutionary Vertical Lift Technologies with Cleveland State University	9/13/2021	9/13/2022	Non-Reimbursable	\$7,250	GRC	SAA3-1701	Aeronautics	View Signed Agreement
203	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
204	34680		Air Force Institute of Technology's support for the Satellite Hosting Atmospheric and Littoral Ocean Water Sensors Project	1/18/2022	1/18/2023	Non-Reimbursable	\$82,554	GRC	SAA3-1700	Science	View Signed Agreement

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205	34557	SPACE EXPLORATION TECHNOLOGIES CORP	Starlink Modal Testing	5/21/2021	5/21/2022	Reimbursable	\$39,127	GRC	SAA3-1691	Space Technology	View Signed Agreement
200	34516	Aprojet Recketdyne	Annex 6 to Upper Stage Engine Manufacturing, Testing, and Evaluation Umbrella Agreement for Aerojet Rockeydyne, Inc.	7/28/2021	7/28/2022	Reimbursable	\$431,711	GRC	SAA3-1639-6	Space Technology	View Signed Agreement
207	34510	Aerojet Rocketdyne, Inc.	Advanced Electric Propulsion System (AEPS) Power Processing Unit (PPU) Environmental Testing	7/27/2021	11/27/2022	Reimbursable	\$198,958	GRC	SAA3-1639-05	Space Technology	View Signed Agreement
208	34340	National Technology and Engineering Solutions of Sandia, LLC	Robust, Autonomous, Fault-Tolerant DC Microgrids	7/21/2021	7/21/2023	Non-Reimbursable	\$503,717	GRC	SAA3-1690	Human Exploration and Operations, Space Technology	View Signed Agreement
209	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
210) 33997	The SMART Tire Company, LLC	Shape Memory Alloy Modeling and Development with Smart Tire Company	4/11/2021	4/11/2023	Reimbursable	\$110,256	GRC	SAA3-1679	Science, Space Technology	View Signed Agreement

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211	3398	5 ASM 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
212	2 33930	6 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
213	3390	3 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
214	3359	9 Acree Technologies, Inc.	High Temperature Sensors for Advanced Combustion Turbine Applications for Acree Technologies	4/30/2021	4/30/2023	Reimbursable	\$32,698	GRC	SAA3-1674	Aeronautics	View Signed Agreement
215	3357	9 ControlX, Inc.	Control Algorithms Dual Mode Testing with ControlX Inc.	3/15/2022	3/15/2024	Non-Reimbursable	\$587,551	GRC	SAA3-1718	Aeronautics	View Signed Agreement
216	3353 [,]	4 The Ohio State University	In-Situ 3-D Printing of Wireless Implant with The Ohio State University	12/2/2020	12/2/2022	Non-Reimbursable	\$31,189	GRC	SAA3-1670	Aeronautics	View Signed Agreement

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217	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
218	33049	Amazon.Com Services,	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
219	33024	CesiumAstro, Inc.	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
220	32831	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
221	32535	ZIN TECHNOLOGIES,	Use of Unique NASA Facilities: Electromagnetic Interference Laboratory (EMI Lab) DreamChaser Task	8/12/2020	8/12/2023	Reimbursable	\$136,514	GRC	SAA3-1662-1	Human Exploration and Operations, Space Technology	View Signed Agreement
222	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

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223		and Research Inc	COVID-19: Technical Expertise and Test Data Analysis for Emergency Products and Research, Inc.	4/24/2020	4/24/2022	Non-Reimbursable	\$52,368	GRC	SAA3-1654	Technology Transfer	View Signed Agreement
224			COVID-19 Sterilization of Personal Protective Equipment	4/2/2020	4/2/2022	Non-Reimbursable	\$81,654	GRC	SAA3-1653	Technology Transfer	View Signed Agreement
225	32206	CASE WESTERN RESERVE UNIVERSITY	A Systematic Data-Analytics Approach to the Design of Interface-Rich Materials	4/15/2021	4/15/2023	Non-Reimbursable	\$21,455	GRC	SAA3-1681	Aeronautics	View Signed Agreement
226	32093	HONEYWELL INTERNATIONAL, INC	Honeywell CLEEN-II Testing in Glenn Advanced Subsonic Combustion Rig (ASCR)	12/2/2020	12/2/2025	Reimbursable	\$900,336	GRC	SAA3-1675	Aeronautics	View Signed Agreement
227	31980	BLUE ORIGIN, LLC	Demonstration of Pre-Environmental Testing of Fairing Components at Plum Brook Station Space Environments Complex (SEC)	8/7/2020	8/7/2022	Reimbursable	\$64,828	GRC	SAA3-1609-2	Space Technology	View Signed Agreement
228	31726	Air Force Research Laboratory	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

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229	9 31725	Air Force Research Laboratory	Free-Space Laser/Quantum Communication Research Activities	10/23/2020	10/23/2025	Non-Reimbursable	\$0	GRC	SAA3-1657	Aeronautics	View Signed Agreement
23() 31589	Southwest Research Institute	Great Horned Owl Demonstration and Validation Program with Southwest Research Institute	5/13/2020	5/13/2023	Non-Reimbursable	\$21,468	GRC	SAA3-1658	Aeronautics	View Signed Agreement
23		The Charles Stark Draper Laboratory, Inc.	Collaborative Development of High Temperature SiC Electronics for The Charles Stark Draper Laboratory, Inc.	1/15/2020	1/31/2023	Reimbursable	\$29,654	GRC	SAA3-1646	Science	View Signed Agreement
232		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
233	3 31374	GE Research	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
234		GREAT LAKES SCIENCE CENTER	The Official NASA Glenn Visitor Center	9/30/2019	9/30/2029	Non-Reimbursable	\$0	GRC		Education and/or Public Engagement	View Signed Agreement

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235		Department of	On-Site Shared Services Between NASA GRC and DOA-APHIS-WS at Plum Brook Station and License		10/29/2024	Non-Reimbursable	\$124,359	GRC	SAA3-1626	Institutional and Mission Support	View Signed Agreement
236	31055	Launchspace Technologies Corporation	Aerogel Material for Orbital Debris Capture	4/30/2020	4/30/2022	Reimbursable	\$274,082	GRC	SAA3-1655	Space Technology	View Signed Agreement
237	30756	herojel Rockeldyne,	Upper Stage Engine Manufacturing, Testing, and Evaluation Umbrella Agreement for Aerojet Rockeydyne, Inc.	11/18/2019	11/18/2024	Reimbursable	\$0	GRC	SAA3-1639	Space Technology	View Signed Agreement
238	3 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
239	9 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
240	30295		Collaborative Icing Research, Simulation Tool Development and Testing Opportunities	3/12/2020	3/12/2023	Non-Reimbursable	\$59,152	GRC	SAA3-1652	Aeronautics	View Signed Agreement

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241	3013	3 CEDAR POINT AMUSEMENT PARK	Math and Science Week Events at Cedar Point Amusement Park	5/20/2019	5/20/2022	Non-Reimbursable	\$66,429	GRC	SAA3-1611	Education and/or Public Engagement	View Signed Agreement
242	2956	6 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
243	2955	9 LOCKHEED MARTIN	Combined-Cycle Engine Large-scale Inlet Mode Transition (CCE-LIMX) CFD Studies	4/2/2019	4/2/2022	Non-Reimbursable	\$17,080	GRC	SAA3-1601	Aeronautics	View Signed Agreement
244	2955	1 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
245	2865	1 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
246	2863	8 GENERAL ELECTRIC COMPANY	Electrified Aircraft Propulsion (EAP) Powertrain Component Testing	9/14/2018	8/31/2022	Non-Reimbursable	\$1,963,492	GRC	SAA3-1573	Aeronautics	View Signed Agreement

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247	28214		Silicon Carbide Fiber High Temperature Characterization	1/14/2020	1/14/2024	Reimbursable	\$88,015	GRC	SAA3-1606-1	Aeronautics	View Signed Agreement
248	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
249	28172	BLUE ORIGIN, LLC	Environmental Testing for Fairing Deployment at Plum Brook Station	5/20/2019	5/20/2024	Reimbursable	\$1,371,855	GRC		Human Exploration and Operations	View Signed Agreement
250	28171	BLUE ORIGIN, LLC	Environmental Testing at Plum Brook Station	5/20/2019	5/20/2024	Reimbursable	\$0	GRC		Human Exploration and Operations	View Signed Agreement
251	28028		High Ice Water Content Radar II Flight Campaign Support	5/13/2019	5/13/2022	Non-Reimbursable	\$17,750	GRC	SAA3-1608	Aeronautics	View Signed Agreement
252	27738		GE Aviation Low Pressure Ratio Fan and Inlet Technology Test	6/26/2019	6/26/2023	Reimbursable	\$6,960,892	GRC	SAA3-1587	Aeronautics	View Signed Agreement

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253	2760	³ 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
254	27174	4 GENERAL ELECTRIC COMPANY	GE Low Pressure Ratio Fan Test	3/28/2019	3/28/2024	Non-Reimbursable	\$5,452,479	GRC	SAA3-1588	Aeronautics	View Signed Agreement
255	26982	2 Kettering City Schools	NASA HUNCH (High school students United with NASA to Create Hardware)	3/14/2018	3/14/2023	Non-Reimbursable	\$97,136	GRC	SAA3-1545	Human Exploration and Operations, Education and/or Public Engagement	View Signed Agreement
256	2682	5 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
257	26450) Genesee Valley Educational Partnership	NASA HUNCH (High school students United with NASA to Create Hardware)	5/6/2018	5/6/2023	Non-Reimbursable	\$97,136	GRC	SAA3-1564	Human Exploration and Operations, Education and/or Public Engagement	View Signed Agreement
258	2634:	3 J.I. Case High School	NASA HUNCH (High school students United with NASA to Create Hardware)	3/14/2018	3/14/2023	Non-Reimbursable	\$91,486	GRC	SAA3-1547	Human Exploration and Operations, Education and/or Public Engagement	View Signed Agreement

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259		North Ridgeville High School	NASA HUNCH (High school students United with NASA to Create Hardware)	3/27/2018	3/27/2023	Non-Reimbursable	\$97,136	GRC	SAA3-1554	Human Exploration and Operations, Education and/or Public Engagement	View Signed Agreement
260		PLATTEVILLE HIGH SCHOOL	NASA HUNCH (High school students United with NASA to Create Hardware)	4/22/2018	4/22/2023	Non-Reimbursable	\$92,620	GRC	SAA3-1560	Human Exploration and Operations, Education and/or Public Engagement	View Signed Agreement
261	25538		NASA HUNCH (High school students United with NASA to Create Hardware)	3/27/2018	3/27/2023	Non-Reimbursable	\$91,486	GRC	SAA3-1553	Human Exploration and Operations, Education and/or Public Engagement	View Signed Agreement
262	25289	East Troy Community School District	NASA HUNCH (High school students United with NASA to Create Hardware)	3/14/2018	3/14/2023	Non-Reimbursable	\$92,620	GRC	SAA3-1546	Human Exploration and Operations, Education and/or Public Engagement	View Signed Agreement
263	24838		Development and Testing of a High Power Space Generator	1/7/2018	1/7/2023	Reimbursable	\$0	GRC	SAA3-1529	Science	View Signed Agreement
264	24459	ZIN TECHNOLOGIES, INC	Use of Unique NASA Facilities (EMI Lab, TSC, 1K Clean room)	3/5/2018	3/5/2023	Reimbursable	\$0	GRC	SAA3-1539	Technology Transfer	View Signed Agreement

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265		Friends of NASA Plum Brook Station, LLC	Plum Brook Station Entry Monument Sign	3/19/2018	3/19/2023	Non-Reimbursable	\$5,452	GRC	SUV3-1210	Education and/or Public Engagement	View Signed Agreement
266	35830	Donney/iv/ania	Utilizing NASA's Technology Transfer University (T2U) Program for dissemination of Goddard's Technology Transfer portfolio	11/24/2021	3/15/2024	Non-Reimbursable	\$5,200	GSFC		Education and/or Public Engagement	View Signed Agreement
267	35626		Laying the Groundwork for Better Understanding Zoonosis Emergence	12/1/2021	6/1/2023	Reimbursable	\$562,500	GSFC	NASA-Foundation- 35626	Science	View Signed Agreement
268	35216	INTUITIVE MACHINES, LLC	Annex to Engineering Analysis and Testing	11/18/2021	11/18/2022	Reimbursable	\$800	GSFC	SAA5-22-1- R35216	Science, Space Technology	View Signed Agreement
269	35144	National Oceanic and Atmospheric Administration	SARSAT MOA	6/14/2021	6/14/2026	Reimbursable	\$949,044	GSFC	450-AGMT-SAR	Human Exploration and Operations	View Signed Agreement
270	35075	AwareAbility Technologies, LLC	X-ray Communication Experiments	11/20/2021	11/20/2022	Reimbursable	\$4,863	GSFC	SAA5-21-4- R35075	Technology Transfer	View Signed Agreement

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271			NASA CONNECTORS (Connecting High School Students to Researchers)	8/24/2021	8/23/2023	Non-Reimbursable	\$70,100	GSFC		Science	View Signed Agreement
272	34975	National Oceanic and Atmospheric Administration	SARSAT IAA	9/7/2021	9/7/2022	Reimbursable	\$949,044	GSFC		Human Exploration and Operations	View Signed Agreement
273	34852	K R D	COLLABORATION ON TECHNICAL SKILL DEVELOPMENT	10/21/2021	10/21/2022	Non-Reimbursable	\$27,300	GSFC		Science, Education and/or Public Engagement	View Signed Agreement
274	34849		COLLABORATION ON TECHNICAL SKILL DEVELOPMENT	9/13/2021	9/13/2022	Non-Reimbursable	\$27,300	GSFC		Science, Education and/or Public Engagement	View Signed Agreement
275	34694		Joint Collaborative Framework for Earth Science Studies	3/22/2022	3/21/2027	Non-Reimbursable	\$51,200	GSFC		Science	View Signed Agreement
276	34656		Joint Collaborative Framework for Astrophysical Studies	10/27/2021	10/26/2026	Non-Reimbursable	\$51,200	GSFC	NASA-GWU-34656	Science	View Signed Agreement

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277	3456	2 The University of Maryland	AUGMENTED REALITY AND VIRTUAL REALITY PROGRAM DEVELOPMENT	7/1/2021	7/1/2023	Non-Reimbursable	\$16,800	GSFC	SAA5-21-2- N34562	Science, Space Technology	View Signed Agreement
278	3426		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
279	3426		Space Exploration, Science and Engineering Research, Business, Computer Science and Stem Inititatives	9/23/2021	9/23/2026	Non-Reimbursable	\$0	GSFC	GSFC-21-34265 NRSAA Umbrella	Education and/or Public Engagement	View Signed Agreement
280	3406	⁵ UNITED LAUNCH ALLIANCE, LLC	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
281	3406	4 UNITED LAUNCH ALLIANCE, LLC	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
282	3406	1 UNITED LAUNCH ALLIANCE, LLC	Annex 2 to ULA Umbrella with Annexes for launch vehicle support (Atlas V CFT)	6/11/2021	6/11/2026	Reimbursable	\$219,976	GSFC	450-AGMT-0180	Human Exploration and Operations	View Signed Agreement

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283		UNITED LAUNCH ALLIANCE, LLC	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
284	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
285	33729	Prince George's County, Maryland	Facilitation of Commercial Utilization of NASA Technologies for Medical Applications	1/19/2021	1/18/2023	Non-Reimbursable	\$23,000	GSFC	SAA5-2021-1- N33729	Technology Transfer	View Signed Agreement
286	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
287	33416	Maryland Technology Development Corporation	Economic Development	11/1/2020	11/1/2023	Non-Reimbursable	\$61,400	GSFC		Education and/or Public Engagement, Technology Transfer	View Signed Agreement
288	33369	Federal Business Council	Collaboration on Cybersecurity Awareness	1/27/2021	1/27/2026	Non-Reimbursable	\$25,000	GSFC	SAA5-20-4- N33369	Institutional and Mission Support	View Signed Agreement

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289	33198		Cornell University for Collaborative Exploration and Engineering for Thermal Design, Flight Dynamics and Robotic Sample		10/21/2022	Non-Reimbursable	\$346,000	GSFC		Science	View Signed Agreement
290	32951	Telophase Corporation	Transfer of Sensing Technologies for Development of a Prototype Rapid Testing Breathalyzer	1/26/2021	1/26/2023	Non-Reimbursable	\$44,835		SAA5-2021-1- A32950	Science, Technology Transfer	View Signed Agreement
29'	32950	Telophase Corporation	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
292	2 32893	L.Garde, Inc.	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
293	3 32803	Orbit Fab, Inc	Grapple Fixture Evaluation	3/5/2021	3/4/2023	Non-Reimbursable	\$39,000	GSFC		Space Technology	View Signed Agreement
294	32802	HONEYBEE ROBOTICS, LTD	Grapple Fixture Evaluation	11/15/2020	11/14/2022	Non-Reimbursable	\$39,000	GSFC		Space Technology	View Signed Agreement

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29	5 32764	Dianot Labe Inc	Orbit Maintenance Coordination w/ GPM & Planet Labs Inc.	6/30/2020	6/30/2025	Non-Reimbursable	\$23,000	GSFC		Science	View Signed Agreement
29	3 37775		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
29		Maryland Department of the Environment	Supporting Shellfish Aquaculture in the Chesapeake Bay using Artificial Intelligence to Detect Poor Water Quality through Sampling and Remote Sensing	6/17/2021	6/17/2023	Non-Reimbursable	\$231,000	GSFC	NASA-MDE-32661	Science	View Signed Agreement
29	3 32654	Altius Space Machines, Inc	Grapple Fixture Evaluation	10/6/2020	10/5/2022	Non-Reimbursable	\$39,000	GSFC		Space Technology	View Signed Agreement
29	9 32490	THE UNIVERSITY OF	AUGMENTED REALITY AND VIRTUAL REALITY DEVELOPMENT FOR NASA SCIENCE AND ENGINEERING	6/10/2020	6/10/2023	Non-Reimbursable	\$16,800	GSFC	SAA5-20-3- N32490	Technology Transfer	View Signed Agreement
30) 31812		Outreach for Space Operations and Mission Problems	6/8/2020	6/7/2025	Non-Reimbursable	\$56,859	GSFC	31811	Science	View Signed Agreement

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301	31811		Outreach for Space Operations and Mission Problems	6/8/2020	6/7/2025	Non-Reimbursable	\$0	GSFC		Science	View Signed Agreement
302	31605		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
303	31591	MARYLAND COLLEGE	AUGMENTED REALITY AND VIRTUAL REALITY DEVELOPMENT FOR NASA SCIENCE AND ENGINEERING	9/24/2020	9/24/2023	Non-Reimbursable	\$16,800	GSFC	SAA5-20-1- N31591	Technology Transfer	View Signed Agreement
304	. 31175		NASA GSFC Non-Occupational fee-based influenza clinic	11/12/2019	11/12/2024	Non-Reimbursable	\$420,000	GSFC			View Signed Agreement
305	31033	Basketball Players	COLLABORATION ON AWARENESS OF NASA TECHNOLOGIES FOR ENTREPRENEURIAL OPPORTUNITIES	10/3/2019	10/3/2022	Non-Reimbursable	\$112,500	GSFC	SAA5-19-4- N31033	Technology Transfer	View Signed Agreement
306	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

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30	29833	DIGITALGLOBE, INC	CONJUNCTION ASSESSMENT SCREENING SERVICES	9/11/2019	9/11/2024	Reimbursable	\$508,282		SAA5-19-2-R- 29833	Science	View Signed Agreement
308	3 29494	SPACE TELESCOPE SCIENCE INSTITUTE	Loan of Touch Screen System for Display of Science Information	2/13/2019	2/1/2023	Non-Reimbursable	\$3,000	GSFC	29494	Science	View Signed Agreement
309	9 29201	National Basketball	COLLABORATION ON AWARENESS OF NASA TECHNOLOGIES FOR ENTREPRENEURIAL OPPORTUNITIES	4/30/2019	4/30/2022	Non-Reimbursable	\$112,600	GSFC	SAA5-19-1- N29201	Technology Transfer	View Signed Agreement
31() 28411	Retired Players	COLLABORATION ON AWARENESS OF NASA TECHNOLOGIES FOR ENTREPRENURIAL OPPORTUNITIES	9/14/2018	9/14/2023	Non-Reimbursable	\$112,600	GSFC	SAA5-18-3- N28411	Space Technology, Technology Transfer	View Signed Agreement
31'	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
312	2 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

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313	25933	INSTITUTE FOR LOCAL INNNOVATIONS, INC	IDENTIFYING AND ESTABLISHING TECHNOLOGY TRANSFER OPPORTUNITIES AND COLLABORATIONS	10/2/2017	10/2/2022	Non-Reimbursable	\$8,700	GSFC	SAA5-17-3- N25933	Aeronautics, Science, Technology Transfer	View Signed Agreement
314	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
315		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
316	36092	Bureau of Land Management	Application for Land Withdrawal and Reservation, Railroad Valley, Nye County, Nevada	2/25/2022	4/30/2023	Non-Reimbursable	\$675,000	HQ		Science	View Signed Agreement
317	35588	A Aronal Ifice and	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		Education and/or Public Engagement	View Signed Agreement
318	35587	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

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319	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
320			NRSAA 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
32'		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
322	2 35126	Therapy Materials Vault	Space Communications and Navigation Speech Therapy Materials	11/3/2021	5/1/2022	Non-Reimbursable	\$1,250	HQ		Human Exploration and Operations, Education and/or Public Engagement	View Signed Agreement
32:	3 34951	Miles Space, Inc.	SCaN Service Support for Team Miles	7/19/2021	7/19/2023	Reimbursable	\$73,500	HQ	450-AGMT-0185	Space Technology	View Signed Agreement
324	34890	Peanuts wondwide,	Annex 2 Under Umbrella Space Act Agreement for Public and Education Outreach and STEM Projects	9/2/2021	9/2/2023	Non-Reimbursable	\$6,375	HQ	SAA-GA-18-27245	Education and/or Public Engagement	View Signed Agreement

ROW F NO. P	PAM ID NUMBER	PARTNER NAME		SIGNATURE DATE	EXPIRATION DATE	TYPE OF AGREEMENT	TOTAL ESTIMATED DOLLAR VALUE OF NASA RESOURCES	CENTER	CENTER TRACKING NUMBER (IF ANY)		LINK TO SIGNED AGREEMENT
325	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
326	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
327	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
328	34710	City of Orlando	Advanced Air Mobility Technology Research and Demonstration Activities	5/7/2021	5/7/2027	Non-Reimbursable	\$0	HQ		Aeronautics	View Signed Agreement
329	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
330	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

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331		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
332			Advanced Air Mobility Technology Research and Demonstration Activities	5/7/2021	5/7/2026	Non-Reimbursable	\$0	HQ	Aeronautics	View Signed Agreement
333	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
334	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
335	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	Aeronautics	View Signed Agreement
336	34682		Advanced Air Mobility Technology Research and Demonstration Activities	5/7/2021	5/7/2026	Non-Reimbursable	\$0	HQ	Aeronautics	View Signed Agreement

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337		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
338	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
339	33818		Small Spacecraft Electric Propulsion (SSEP) System	11/6/2020	11/5/2022	Unfunded	\$998,544	HQ	STMD-SAA- ACO20-0021	Space Technology	View Signed Agreement
340	33812		Proposal to the National Aeronautics and Space Administration (NASA) Space Technology Announcement of Collaborative Opportunity	11/6/2020	11/5/2022	Unfunded	\$1,246,814	HQ	STMD-SAA- ACO20-0009	Space Technology	View Signed Agreement
341	33811	Blue Origin, LLC	Increasing Engine Life & Thrust/Weight Through Characterization of Additively Manufactured Alloys	11/6/2020	11/5/2022	Unfunded	\$585,236	HQ	STMD-SAA- ACO20-0034	Space Technology	View Signed Agreement
342	33810	Phase Four, Inc	Lifetime Trend Testing of the Phase Four RF Thruster for Small Spacecraft Missions	11/6/2020	11/5/2022	Unfunded	\$424,161	HQ	STMD-SAA- ACO20-0056	Space Technology	View Signed Agreement

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343	33809	STELLAR EXPLORATION, INC	Qualification Testing of Nanosatellite Propulsion System	11/6/2020	11/5/2022	Unfunded	\$1,098,460	HQ	STMD-SAA- ACO20-0041	Space Technology	View Signed Agreement
344		AEROJET ROCKETDYNE, INC	A Novel Approach to Human Exploration- Enabling Green Monopropellants for SmallSats	11/6/2020	4/30/2022	Unfunded	\$1,070,000	HQ	STMD-SAA- ACO20-0036	Space Technology	View Signed Agreement
345	33807	CORNERSTONE RESEARCH GROUP, INC.	Additively Manufactured TPS Arc Jet Evaluation	11/6/2020	11/5/2022	Unfunded	\$897,358	HQ	STMD-SAA- ACO20-0038	Space Technology	View Signed Agreement
346	33806	Elementum 3D, Inc	Reactive Additive Manufacturing for Fourth Industrial Revolution Exploration Systems (RAMFIRE)	11/6/2020	11/5/2022	Unfunded	\$1,117,904	HQ	STMD-SAA- ACO20-0026	Space Technology	View Signed Agreement
347	33805	SPACE EXPLORATION TECHNOLOGIES CORP	In-flight Imagery and Thermal Measurement of Starship during Orbital Reentry	11/6/2020	11/5/2022	Unfunded	\$1,195,400	HQ	STMD-SAA- ACO20-0025	Space Technology	View Signed Agreement
348	33804	Ahmic Aerospace, LLC	Hypersonic Instrumentation and Thermal Protection System Material Characterization Test Methodology	11/6/2020	11/5/2022	Unfunded	\$786,480	HQ	STMD-SAA- ACO20-22	Space Technology	View Signed Agreement

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349	33803	Spacefactory, Inc	Design of an Additive Construction System for Lunar ISRU Application through Active Sample Testing in a Relevant Environment	11/6/2020	11/5/2022	Unfunded	\$627,355	HQ	STMD-SAA- ACO20-53	Space Technology	View Signed Agreement
350	33802	BLUE ORIGIN, LLC	Space Robot Operating System	11/6/2020	11/5/2022	Unfunded	\$2,112,823	HQ	STMD-SAA- ACO20-32	Space Technology	View Signed Agreement
351	33801	PH Matter, LLC	Advanced Alkaline Reversible Cell for Production of Hydrogen and Oxygen from ISRU-Generated Water	11/6/2020	11/5/2022	Unfunded	\$441,469	HQ	STMD-SAA- ACO20-0012	Space Technology	View Signed Agreement
352	33800	SPACE SYSTEMS LORAL, LLC	Lunar Dust Mitigation on Flexible Solar Arrays	11/6/2020	11/5/2022	Unfunded	\$965,210	HQ	STMD-SAA- ACO20-0020	Space Technology	View Signed Agreement
353	33799	Box Elder Innovations, LLC	Enhanced Pulsed Electro-Acoustic Analysis	11/6/2020	11/5/2022	Unfunded	\$868,613	HQ	STMD-SAA- ACO20-0001	Space Technology	View Signed Agreement
354	33798	Gloyer-Taylor Laboratories, LLC	UCDS Demonstration and Evaluation	11/6/2020	11/5/2022	Unfunded	\$93,581	HQ	STMD-SAA- ACO20-0004	Space Technology	View Signed Agreement

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355	3379	7 SPACE SYSTEMS LORAL, LLC	Advancing the TRL of Novel Diamond-Like- Coating for Protection of Solar Cell Interconnectors from High-Energy Electric Thruster Plume Erosion	11/6/2020	11/5/2022	Unfunded	\$268,388	HQ	STMD-SAA- ACO20-0019	Space Technology	View Signed Agreement
356	3379	5 SPACE SYSTEMS LORAL, LLC	Bang-Bang Propellant Feed System for the 12 kW Hall Thruster	11/6/2020	11/5/2022	Unfunded	\$461,692	HQ	STMD-SAA- ACO20-0024	Space Technology	View Signed Agreement
357	33794	4 IN Space, LLC	Rapid Development of Regeneratively Cooled RDRE Chambers for Space Engines	11/6/2020	11/5/2022	Unfunded	\$950,222	HQ	STMD-SAA- ACO20-0044	Space Technology	View Signed Agreement
358	3377:	2 SENSURON LLC	Space-rated FOSS Interrogator For Cryogenic Temperature Monitoring In Space	11/6/2020	11/5/2022	Unfunded	\$540,219	HQ	STMD-SAA- ACO20-0010	Space Technology	View Signed Agreement
359	3316	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
360	3315	9 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

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361	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
362	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
363	32858	Microsoft Corporation	Annex 9 to Umbrella Nonreimbursable Space Act Agreement between NASA and Microsoft Corporation for Strategic Alliance for STEM Education Activities	8/19/2020	8/19/2022	Non-Reimbursable	\$35,250	HQ	SAA-AD-18-26048	Education and/or Public Engagement	View Signed Agreement
364	32857	STEM Next Opportunity	Annex 1 Under Umbrella Space Act Agreement for the STEM Next Million Girls Moonshot Initiative	8/27/2020	8/27/2022	Non-Reimbursable	\$95,500	HQ	32856	Education and/or Public Engagement	View Signed Agreement
365	32856		Umbrella Space Act Agreement for Increasing Access to STEM Engagement and STEM Education Opportunities and Experiences		8/27/2025	Non-Reimbursable	\$0	HQ		Education and/or Public Engagement	View Signed Agreement
366	32717	United States Air Force	Enabling Advanced Air Mobility	4/7/2021	4/7/2026	Non-Reimbursable	\$150,000	HQ		Aeronautics	View Signed Agreement

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367	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
368	3 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
369	32453		Annex 1 Under Umbrella SAA for Artemis- Themed STEM Learning Experiences for Preschool-Aged Children and Their Families	10/20/2020	10/20/2022	Non-Reimbursable	\$54,500	HQ	32453	Education and/or Public Engagement	View Signed Agreement
370	32452	Noggin (A subsidiary of Viacom CBS)	Umbrella SAA for NASA-Themed STEM Learning Experiences for Preschool-Aged Children and Their Families	10/20/2020	10/20/2022	Non-Reimbursable	\$0	HQ	32452	Education and/or Public Engagement	View Signed Agreement
37'		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
372	2 32284		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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373	31920		Advanced Air Mobility National Campaign Series	12/21/2020	12/21/2025	Non-Reimbursable	\$28,072,353	HQ		Aeronautics	View Signed Agreement
374	31919		For Demonstration of Promising Aviation Concepts and Technology	1/4/2021	1/4/2026	Non-Reimbursable	\$0	HQ		Aeronautics	View Signed Agreement
375	31713	DOE Office of Science	Arctic Climate and Ecology Research in Alaska	1/9/2020	1/9/2023	Non-Reimbursable	\$3,105,000	HQ		Science	View Signed Agreement
376	31562	U.S. SATELLITE	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
377	31561		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
378	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

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379	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	6/1/2023	Unfunded	\$1,239,000	HQ	ACO-2019-070	Space Technology	View Signed Agreement
380	30978	Vulcan Wireless	NRSAA Between NASA and Vulcan Wireless Inc Under the Space Technology Announcement of Competitive Opportunity 2019, Resilience testing of Multi-Mode S-Band Transponder	7/29/2019	5/31/2022	Unfunded	\$1,085,438	HQ	ACO-2019-061	Space Technology	View Signed Agreement
381	30974	BLUE ORIGIN, LLC	NRSAA Between NASA and Blue Origin Under the Space Technology Announcement of Competitive Opportunity 2019, Primary Fuel Cell Power System for Lunar Landers	7/29/2019	7/29/2022	Unfunded	\$1,450,000	HQ	ACO-2019-050	Space Technology	View Signed Agreement
382	30972	, Colorado Power Electronics Inc.	NRSAA Between NASA and Colorado Power Electronics Inc Under the Space Technology Announcement of Competitive Opportunity 2019, Qualification and Integration Tests of the Colorado Power Electronics Prototype Development Unit Power Processing Unit with NASA and Commercial Hall Thrusters	7/29/2019	12/29/2022	Unfunded	\$1,300,000	HQ	ACO-2019-025	Space Technology	View Signed Agreement
383	30967	LOCKHEED MARTIN	NRSAA Between NASA and Lockheed Martin Under the Space Technology Announcement of Competitive Opportunity 2019, Advanced Lightweight Powder Metallurgy for Hot Structures	7/29/2019	3/31/2022	Unfunded	\$1,040,000	HQ	ACO-2019-075	Space Technology	View Signed Agreement
384	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	4/30/2022	Unfunded	\$1,022,908	HQ	ACO-2019-062	Space Technology	View Signed Agreement

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385	30961	Aerogel Technologies	NRSAA Between NASA and Aerogel Technologies LLC Under the Space Technology Announcement of Competitive Opportunity 2019, Mechanically Strong Polyimide Aerogels as Multifunctional Acoustic Insulation for Aerospace Applications	7/29/2019	9/29/2022	Unfunded	\$1,298,000	HQ	ACO-2019-027	Space Technology	View Signed Agreement
386	30960	AEROJET ROCKETDYNE, INC	NRSAA Between NASA and Aerojet Rocketdyne of DE Inc. Under the Space Technology Announcement of Competitive Opportunity 2019, Extensible Robotic Deposition Technology for Propulsion Systems	7/29/2019	4/30/2022	Unfunded	\$1,197,474	HQ	ACO-2019-024	Space Technology	View Signed Agreement
387	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	9/30/2023	Unfunded	\$670,696	HQ	ACO-2019-018	Space Technology	View Signed Agreement
388	30933	SPACE SYSTEMS LORAL, LLC	NRSAA Between NASA and Space Systems Loral LLC Under the Space Technology Announcement of Competitive Opportunity 2019, Advancing Qualification Protocols of Ultra-lightweight 5-junction Solar Cells Applied to Flexible Solar Array Power Modules	7/29/2019	12/29/2022	Unfunded	\$1,752,052	HQ	ACO-2019-011	Space Technology	View Signed Agreement
389	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
390	30111	Department of Labor	Agreement to Access DOL Web Based ECOMP Claim Filing System	5/3/2019	5/3/2022	Non-Reimbursable	\$64,800	HQ		Institutional and Mission Support	View Signed Agreement

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391	2933	3 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
392	2 2922	7 Department of State	High Threat Security Overseas Seminar (HTSOS) online course	8/2/2018	8/2/2023	Non-Reimbursable	\$0	HQ			View Signed Agreement
393	3 2845	United States 8 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
394	2842	1 Neuron Fuel Inc. dba Tynker	Annex 1 Under Umbrella SAA for Engaging Students in NASA-Themed Coding Activities	12/20/2018	12/20/2023	Non-Reimbursable	\$56,599	HQ	28421	Education and/or Public Engagement	View Signed Agreement
395	5 2842	0 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		Education and/or Public Engagement	View Signed Agreement
396	3 2812	2 U.S. Air Force	Joint Center for Satellite Data Assimilation MOA	4/20/2021	4/20/2026	Non-Reimbursable	\$8,250,000	HQ		Science	View Signed Agreement

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397	27962	Department of Commerce, National Coceanic 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
398	27663		Nonreimbursable Umbrella IAA with HHS Relating to the Improvement of Human Health and Public Health	7/31/2018	7/31/2023	Non-Reimbursable	\$0	HQ		Human Exploration and Operations	View Signed Agreement
399	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
400	26617	, Breakthrough Starshot Foundation, LLC	Enceladus Flyby Mission Concept Study	9/13/2018	9/12/2023	Non-Reimbursable	\$72,834	HQ		Science	View Signed Agreement
401	26616	Breakthrough Starshot Foundation, LLC	Collaboration on Breakthrough Search for Life	9/13/2018	9/12/2023	Non-Reimbursable	\$0	HQ		Science	View Signed Agreement
402	24291	National Science Foundation	Modeling of Solar Activity and Space Weather	4/30/2018	4/29/2023	Non-Reimbursable	\$6,000	HQ		Science	View Signed Agreement

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403	3 36173		OCX Transition to Operations and Sustaining Support	2/17/2022	6/30/2022	Reimbursable	\$1,014,474	JPL		Science	View Signed Agreement
404	4 36154	TELECOMMUNICATIO N SYSTEMS, INC	Assistance Global Navigation Satellite System (GNSS) Data to TeleCommunication Systems, Inc. (TCS)	2/16/2022	2/16/2025	Reimbursable	\$5,121,987	JPL		Science	View Signed Agreement
40:	5 35792	Attollo Engineering, LLC	High-performance long-wavelength infrared detector	3/7/2022	12/7/2025	Reimbursable	\$666,070	JPL		Science	View Signed Agreement
400	35338		Carbon Plume Mapper Risk Reduction Airborne Campaign	1/13/2022	4/13/2025	Reimbursable	\$5,479,636	JPL		Science	View Signed Agreement
40	34786	MOOG, INC	JPL IGOR Software Support for MBR	10/21/2021	10/21/2024	Reimbursable	\$225,124	JPL		Space Technology	View Signed Agreement
408	3 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

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409	9 34171	Carbon Mapper	Carbon Plume Mapper (CPM)	3/19/2021	5/19/2023	Reimbursable	\$38,235,059	JPL	Science	View Signed Agreement
410			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
41'	34016	EMBRY-RIDDLE AERONAUTICAL UNIVERSITY	AtmoSense/AIRWaveS: Atmosphere- Ionosphere Responses to Wave Signals	8/18/2021	11/18/2023	Reimbursable	\$894,329	JPL	Science	View Signed Agreement
412	2 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
41:	3 33889	Raytheon Company	OCX Block 3F Support	8/18/2021	3/18/2025	Reimbursable	\$2,581,701	JPL	Space Technology, Technology Transfer	View Signed Agreement
414	l 33853	MASTEN SPACE SYSTEMS, INC	Interplanetary Network Services Support	3/1/2021	5/1/2023	Reimbursable	\$592,559	JPL	Science	View Signed Agreement

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41	5 33632		Global Navigation Satellite Systems Corrections Data to Veripos (US) Inc.	3/11/2021	3/11/2023	Reimbursable	\$537,892	JPL		Human Exploration and Operations	View Signed Agreement
41	6 33349		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
41	7 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
41	3 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
41	9 32460	UNIVERSITY OF ARIZONA	Instrument Feasibility Study for Greenhouse Gas Detection	6/3/2020	6/30/2022	Reimbursable	\$921,947	JPL		Space Technology	View Signed Agreement
42	0 31774		Exploitation of COSMIC-2 Data in Numerical Weather Prediction	12/8/2020	6/30/2022	Reimbursable	\$161,643	JPL		Science	View Signed Agreement

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421		ASTROBOTIC TECHNOLOGY, INC	IND Network Services Support of Astrobotic	4/15/2020	2/28/2023	Reimbursable	\$1,747,006	JPL		Science	View Signed Agreement
422	2 31570	PaR Systems, LLC	Piezoelectric Percussive Augmenter of Rotary Drill (PARoD) for Sampling Cores from Fuel Debris – Phase 2	1/31/2020	1/31/2023	Reimbursable	\$997,413	JPL		Science, Space Technology	View Signed Agreement
423	30629		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
424	29920		Superconducting Nanowire Single Photon Detector Technology Development	3/27/2019	4/30/2024	Reimbursable	\$955,715	JPL		Science	View Signed Agreement
425	5 29799	HARRIS CORP	Navigation Technology Satellite-3 Geosynchronous Earth Orbit Experiment	4/10/2019	4/10/2023	Reimbursable	\$9,422,633	JPL		Science	View Signed Agreement
426	28319	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

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427	2652		Support the Development of Advanced Ground Antennas for the US Government	3/19/2018	3/26/2023	Reimbursable	\$100,000	JPL		Science	View Signed Agreement
428	3598	⁵ Alpha Space Test and Research Alliance, LLC	Alpha Space	2/3/2022	2/2/2024	Reimbursable	\$30,964	JSC		Human Exploration and Operations	View Signed Agreement
429	3580	7 BLUE ORIGIN, LLC	Commercial Destinations - Free Flyer Phase 1 (Blue Origin)	12/1/2021	12/1/2026	Funded	\$130,000,000	JSC	JSC-UA-21-35807	Human Exploration and Operations	View Signed Agreement
430	3580	6 Northrop Grumman	Commercial Destinations - Free Flyer Phase 1 (Northrop Grumman)	12/1/2021	12/1/2026	Funded	\$125,600,000	JSC	JSC-UA-21-35806	Human Exploration and Operations	View Signed Agreement
431	3580	5 NANORACKS, LLC	Commercial Destinations - Free Flyer Phase 1 (Nanoracks)	12/1/2021	12/1/2026	Funded	\$160,000,000	JSC	JSC-UA-21-35805	Human Exploration and Operations	View Signed Agreement
432	3573	1 Exponent, Inc.	Lithium-Ion Cell Testing Support	2/6/2022	8/6/2022	Reimbursable	\$24,348	JSC	SAA-EA-22-35731	Space Technology	View Signed Agreement

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433	3 35689	BLUE ORIGIN, LLC	Lunar Lander System Technologies	12/13/2021	12/13/2024	Reimbursable	\$989,968	JSC		Human Exploration and Operations, Space Technology	View Signed Agreement
434			Annex Two NASA NEUTRAL BUOYANCY LABORATORY FACILITY USAGE AGREEMENT	12/6/2021	5/26/2026	Reimbursable	\$23,341	JSC	SAA-SA-21-34167- 02	Human Exploration and Operations	View Signed Agreement
435	35569	LifeShip, Inc.	LifeShip	1/4/2022	1/3/2024	Reimbursable	\$1,200	JSC		Human Exploration and Operations	View Signed Agreement
436		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	3/24/2024	Reimbursable	\$999,616	JSC		Education and/or Public Engagement	View Signed Agreement
437	35556	Houston Livestock Show and Rodeo, Inc.	REIMBURSABLE SPACE ACT AGREEMENT BETWEEN The National Aeronautics and Space Administration Lyndon B. Johnson Space Center and Houston Livestock Show and Rodeo, Inc. for Texas High School Aerospace Scholars	12/15/2021	12/15/2022	Reimbursable	\$100,000	JSC	SAA-AD-21-35556	Education and/or Public Engagement	View Signed Agreement
438	35459	Passaic County Technical-Vocational Schools	PASSAIC COUNTY TECHNICAL- VOCATIONAL SCHOOLS	3/7/2022	3/6/2027	Non-Reimbursable	\$14,420	JSC		Human Exploration and Operations	View Signed Agreement

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439		CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT	CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT	11/10/2021	11/9/2026	Non-Reimbursable	\$73,892	JSC		Human Exploration and Operations	View Signed Agreement
440	35408	CONROE INDEPENDENT SCHOOL DISTRICT	Conroe Independent School District	12/13/2021	12/12/2026	Non-Reimbursable	\$67,949	JSC		Human Exploration and Operations	View Signed Agreement
441	35401		CLEAR CREEK INDEPENDENT SCHOOL DISTRICT	12/13/2021	12/12/2026	Non-Reimbursable	\$61,699	JSC		Human Exploration and Operations	View Signed Agreement
442	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
443	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
444	35149	Microsoft Corporation	Annex to Non-Reimbursable Space Act Umbrella Agreement between the National Aeronautics and Space Administration Lyndon B. Johnson Space Center and Microsoft Corporation for Strategic Alliance for STEM Education Activities	12/20/2021	2/6/2023	Non-Reimbursable	\$91,491	JSC	SAA-AD-18-26048	Education and/or Public Engagement	View Signed Agreement

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445		University of Houston- Clear Lake	annex to Umbrella for Collaborative Research, Technology Transfer, and Education Activities	8/23/2019	8/23/2024	Non-Reimbursable	\$2,283	JSC	SAA-XA-19-27634	Human Exploration and Operations	View Signed Agreement
446	35077	ASTROBOTIC TECHNOLOGY, INC	Guidance Solutions for Griffin Lunar Lander	3/11/2022	3/11/2023	Reimbursable	\$156,578	JSC	SAA-EA-22-35077	Human Exploration and Operations, Space Technology	View Signed Agreement
447		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
448	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
449	34640	UNIVERSITY OF HOUSTON	STEM Engagement Activities for Pre-Service Teachers	12/15/2022	12/15/2024	Non-Reimbursable	\$233,082	JSC	SAA-AD22-34640- 1	Education and/or Public Engagement	View Signed Agreement
450	34448	L2 Solutions	SEOPS / Dianna Rae Jewelry	10/9/2021	10/8/2023	Reimbursable	\$120,000	JSC		Human Exploration and Operations	View Signed Agreement

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451	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
452	34285	SPACE EXPLORATION TECHNOLOGIES CORPORATION	TWO NON-NASA SPACEFLIGHT MISSIONS	7/14/2021	7/14/2023	Reimbursable	\$269,269	JSC	SAA-UA-21-34284	Human Exploration and Operations	View Signed Agreement
453	34284	SPACE EXPLORATION TECHNOLOGIES CORPORATION	COMMERCIAL SPACE SYSTEM OPERATIONS AND DEVELOPMENTS	7/14/2021	7/14/2026	Reimbursable	\$0	JSC	SAA-UA-21-34284		View Signed Agreement
454	34279	U.S. Air Force Academy	ISS Antenna Manager Software Upgrade for United States Air Force Academy Capstone Project	4/30/2021	10/30/2022	Non-Reimbursable	\$15,185	JSC	SAA-CA-21-34279	Space Technology	View Signed Agreement
455	34173	UNIVERSITY OF HOUSTON	Collaborative initiatives in research, technology development, technology transfer training, education and outreach	1/14/2022	1/13/2027	Non-Reimbursable	\$0	JSC		Education and/or Public Engagement, Technology Transfer	View Signed Agreement
456		KBR WYLE SERVICES, LLC	ANNEX ONE for HUMAN HEALTH AND PERFORMANCE FACILITIES UTILIZATION	5/26/2021	5/26/2026	Reimbursable	\$691,554	JSC	SAA-SA-21-34167	Science	View Signed Agreement

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457			HUMAN HEALTH AND PERFORMANCE FACILITIES UTILIZATION	5/26/2021	5/26/2026	Reimbursable	\$0	JSC	SAA-SA-21-34167		View Signed Agreement
458	34138	INTUITIVE MACHINES, LLC	Annex to Engineering Analysis and Testing	5/26/2021	5/20/2022	Reimbursable	\$131,808	JSC	SAA-EA-21-34138	Space Technology	View Signed Agreement
459	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
460		Bridgerland Technical College	Bridgerland Technical College	10/20/2021	10/19/2026	Non-Reimbursable	\$3,139	JSC		Human Exploration and Operations	View Signed Agreement
461	33915	Highlands College Of Montana Tech	Highlands College Of Montana Tech	10/13/2021	10/12/2026	Non-Reimbursable	\$3,138	JSC		Human Exploration and Operations	View Signed Agreement
462	33898	Virgin Orbit	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		2/11/2023	Reimbursable	\$77,437	JSC	SAA2-403586	Space Technology	View Signed Agreement

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46	3 33880	COUNTY COLLEGE OF MORRIS	COUNTY COLLEGE OF MORRIS	10/20/2021	10/19/2026	Non-Reimbursable	\$3,138	JSC		Human Exploration and Operations	View Signed Agreement
46			TRI COUNTY REGIONAL VOCATIONAL SCHOOL DISTRICT	10/18/2021	10/18/2026	Non-Reimbursable	\$3,139	JSC		Human Exploration and Operations	View Signed Agreement
46	5 33878	BILLINGS PUBLIC SCHOOLS	BILLINGS PUBLIC SCHOOLS	11/8/2021	11/7/2026	Non-Reimbursable	\$3,139	JSC		Human Exploration and Operations	View Signed Agreement
46	6 33872	The University of North Carolina at Charlotte	Collaboration on the Mechanical Failure of Li- Ion Cylindrical Cell	11/5/2021	11/5/2023	Non-Reimbursable	\$94,558	JSC	SAA-EA-22-33872	Human Exploration and Operations	View Signed Agreement
46	7 33869	LINCOLN TECHNICAL	LINCOLN TECHNICAL INSTITUTE STUDENTS COLLABORATING WITH NASA UNDER THE HUNCH (HIGH SCHOOL STUDENTS UNITED WITH NASA TO	10/20/2021	10/19/2026	Non-Reimbursable	\$3,139	JSC		Human Exploration and Operations	View Signed Agreement
46		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

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469	3377(⁶ Amazon.com Services LLC	Project Kuiper MMOD Risk Assessment	5/19/2021	5/19/2023	Reimbursable	\$1,093,927	JSC	SAA-XI-21-33776	Space Technology	View Signed Agreement
470	3376	⁶ UNITED LAUNCH ALLIANCE, LLC	Annex 3 For Commercial Space Launch Vehicle Mission Insight Imagery Aircraft Mission Repeat	1/20/2021	1/20/2023	Reimbursable	\$1,325,756		SAA-UA-21-33766- 03	Space Technology	View Signed Agreement
471	3374	4 Canyon Ridge High School	Canyon Ridge High School	8/12/2021	8/11/2026	Non-Reimbursable	\$61,713	JSC		Human Exploration and Operations	View Signed Agreement
472	3371	0 Expanding Frontiers	Technology Utilization	6/28/2021	6/28/2022	Non-Reimbursable	\$17,363	JSC	SAA-XB-21-33710- 01	Technology Transfer	View Signed Agreement
473	3370	9 Expanding Frontiers	Technology Utilization	6/28/2021	6/28/2024	Non-Reimbursable	\$0	JSC	SAA-XB-21-33709	Technology Transfer	View Signed Agreement
474	3350	⁶ Mass Challenge Houston	Participation in Mass Challenge Flywheel Program	4/30/2021	4/30/2022	Non-Reimbursable	\$12,170	JSC	SAA-XA-20-33506- 01	Technology Transfer	View Signed Agreement

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475		0	COOPERATIVE SPACE COMMERCIALIZATION ACTIVITIES	4/30/2021	4/30/2024	Non-Reimbursable	\$0	JSC	SAA-XA-20-33505	Technology Transfer	View Signed Agreement
476	-2-2-206	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
477			USCG Training Operations at the Neutral Buoyancy Laboratory	2/8/2021	2/8/2026	Reimbursable	\$60,000	JSC	SAA-JA-21-33229	Institutional and Mission Support	View Signed Agreement
478	33102		Radio Frequency Identification (RFID) Collaboration (Annex 2)	9/3/2021	9/3/2023	Non-Reimbursable	\$10,388	JSC		Human Exploration and Operations	View Signed Agreement
479	33026	GENERAL MOTORS, LLC	Thermal Runaway Cell Testing for Vent Gas Analysis (Annex 2)	11/20/2020	11/20/2022	Reimbursable	\$180,000	JSC	SAA-EA-20-33026	Human Exploration and Operations	View Signed Agreement
480	32919		UTMB DIETETIC STUDENT EXPERIENCE AT NASA	8/12/2020	8/12/2025	Non-Reimbursable	\$37,971	JSC	32919	Science	View Signed Agreement

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481	32916		Mechanical Parachute Reefing Release Mechanism	10/23/2020	10/23/2022	Non-Reimbursable	\$99,912	JSC		Human Exploration and Operations	View Signed Agreement
482	32778	3 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
483	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
484	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
485	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
486	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

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487		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	9/3/2020	9/3/2022	Reimbursable	\$989,616	JSC	SAA-AD-20-32623	Education and/or Public Engagement	View Signed Agreement
488	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
489	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
490	32361	Techshot, Inc.	Techshot Commercial Resource Request	5/20/2020	5/20/2022	Reimbursable	\$30,348	JSC		Human Exploration and Operations	View Signed Agreement
491	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
492	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

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493	32239	Space Commerce	TO COLLABORATE WITH NASA TO CONDUCT COMMERCIAL ACTIVITIES ON THE INTERNATIONAL SPACE STATION	5/4/2020	5/4/2022	Reimbursable	\$128,136	JSC	SAA-OZ-20-32239	Human Exploration and Operations	View Signed Agreement
494	32236		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
495	32208		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
496	32079	WOUNDED WARRIOR PROJECT	HOUSTON SOLDIER RIDE	3/31/2020	3/31/2025	Non-Reimbursable	\$7,270	JSC		Education and/or Public Engagement	View Signed Agreement
497	32042	Baylor University	BAYLOR UNIVERSITY AND NASA COLLABORATION ON 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
498	32031	CENTER RADIO	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

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499	9 31994	Composites Solutions	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-19-29452	Human Exploration and Operations	View Signed Agreement
500) 31987	Chemring Energetic Devices	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
50 [.]	31923	MERIDIAN HEALTH SYSTEMS	MICROWAVE TISSUE SOLDERING FOR WOUND CLOSURE	4/6/2020	9/30/2022	Reimbursable	\$186,999	JSC	SAA-EA-20-31923	Human Exploration and Operations	View Signed Agreement
502	2 31734	IOWA NORTHWEST AREA EDUCATION AGENCY	Space Settlement Design Competition	7/8/2020	7/8/2023	Reimbursable	\$20,510	JSC	SAA-XA-20-31734	Education and/or Public Engagement	View Signed Agreement
503	3 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
504	4 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

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505	31714	TEXAS INSTRUMENTS, INC	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
506	31386		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
507		The Proctor & Gamble Company	Laundry Detergent for Space	8/18/2020	8/18/2022	Non-Reimbursable	\$111,504	JSC	SAA-EA-20-31322	Human Exploration and Operations	View Signed Agreement
508	31321	The Proctor & 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
509	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
510	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

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511	31124	INDEPENDENT	Annex to existing umbrella - Collaboration for STEM Engagement, Education, and Community Outreach Activities	11/15/2019	11/15/2022	Reimbursable	\$1,350,000	JSC	SAA-AD-18-27594	Education and/or Public Engagement	View Signed Agreement
512	31088	Meridian Technology Center	HIGH SCHOOL STUDENTS UNITED WITH NASA TO CREATE HARDWARE (HUNCH).	8/12/2021	8/12/2026	Non-Reimbursable	\$22,752	JSC		Human Exploration and Operations	View Signed Agreement
513		Oliver Ames High School	HIGH SCHOOL STUDENTS UNITED WITH NASA TO CREATE HARDWARE (HUNCH).	8/12/2021	8/12/2026	Non-Reimbursable	\$16,206	JSC		Human Exploration and Operations	View Signed Agreement
514	30784		HUMANOID ROBOTICS AND RELATED TECHNOLOGIES	3/10/2020	3/10/2025	Reimbursable	\$8,440,428	JSC	SAA-EA-19-30784	Human Exploration and Operations, Education and/or Public Engagement	View Signed Agreement
515	30783	WILLIAM MARSH	COLLABORATIVE TECHNOLOGY DEVELOPMENT, INNOVATION, AND RESEARCH	3/10/2020	3/10/2025	Reimbursable	\$0	JSC	SAA-EA-19-30783	Human Exploration and Operations, Education and/or Public Engagement	View Signed Agreement
516	30679	NANORACKS, LLC	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

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517	30388	8 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
518	30119	9 GENERAL MOTORS, LLC	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
519	30108	Orbital Sciences Corporation, a wholly 8 owned subsidiary of Northrup Grumman Innovation Systems	JSC/SGT Annex to Cryogenically - Fueled Upper Stage Technologies	8/28/2019	8/27/2022	Reimbursable	\$436,781	JSC	SAA8-1726082	Human Exploration and Operations	View Signed Agreement
520	2986	Manned Space Flight 5 Education Foundation, Inc.	NON-REIMBURSBLE SAA WITH MANNED SPACEFLIGHT EDUCATION FOUNDATION, INC. FOR COLLABORATIVE EDUCATION AND OUTREACH ACTIVITIES	7/15/2019	7/15/2024	Non-Reimbursable	\$3,095	JSC	SAA-AD-19-29865	Education and/or Public Engagement	View Signed Agreement
521	29823	³ Underwriters Laboratories Inc.	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
522	29812	2 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

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523	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		9/22/2026	Non-Reimbursable	\$6,516	JSC	SAA-OA-21-29741	Human Exploration and Operations	View Signed Agreement
524	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
525	29557	, UNIVERSITY OF WASHINGTON	Mental Modes Cycles	5/29/2019	5/29/2022	Reimbursable	\$39,937	JSC		Human Exploration and Operations	View Signed Agreement
526	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
527	29452	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
528	29366	S 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

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529	9 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
530) 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
53'	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
532	2 28849	Microsoft Corporation	Annex to Non-Reimbursable Space Act Umbrella Agreement between the National Aeronautics and Space Administration Lyndon B. Johnson Space Center and Microsoft Corporation for Strategic Alliance for STEM Education Activities	12/18/2019	12/17/2022	Non-Reimbursable	\$143,551	JSC	SAA-AD-18-28849- 06	Education and/or Public Engagement	View Signed Agreement
53:	3 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
534	4 28679	Ben Barber Innovation Academy	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

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535	28672	2 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
536	28527	N-SCIENCE, INC	Asteroid Exploration Mission Concept Development	8/20/2019	8/20/2022	Non-Reimbursable	\$12,395	JSC	SAA-XA-19-28527	Human Exploration and Operations, Science	View Signed Agreement
537	2838:	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
538	28378	BiVACOR Inc.	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
539	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
540	28307	7 DreamUp	Collaboration in Support of Educational Outreach	8/1/2018	7/31/2023	Non-Reimbursable	\$34,139	JSC	SAA-OZ-18-28307	Human Exploration and Operations	View Signed Agreement

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541	28182	SOUTHWEST RESEARCH INSTITUTE	Commercialization of NASA's NASGRO Software	11/21/2018	11/21/2023	Non-Reimbursable	\$196,654	JSC	SAA-EA-19-28182	Space Technology	View Signed Agreement
542	28089	Alvin High School	For Students Collaborating with NASA to Produce Hardware or Other Useful Products under the High School Students Unified with NASA to Create Hardware (HUNCH) Program		9/19/2023	Non-Reimbursable	\$57,440	JSC	SAA-OZ-18-28089	Human Exploration and Operations	View Signed Agreement
543	28036	Microsoft Corporation	Annex 4 to Non-Reimbursable Space Act Umbrella Agreement between the National Aeronautics and Space Administration Lyndon B. Johnson Space Center and Microsoft Corporation for Strategic Alliance for STEM Education Activities	2/12/2019	2/6/2023	Non-Reimbursable	\$275,321	JSC	SAA-AD-18-28036- 04	Education and/or Public Engagement	View Signed Agreement
544	28012	Prairie View A&M University	NASA JSC 's Continued Support of the Joint Development of the Charged Particle Detector with PVAMU	5/1/2018	5/1/2022	Non-Reimbursable	\$25,447	JSC	SAA-EA-18-28012	Education and/or Public Engagement	View Signed Agreement
545	27894	Space Family Education, Inc	Aaron Cohen Child Care Center	6/27/2019	6/27/2024	Non-Reimbursable	\$2,102,672	JSC	SAA-XA-18-27894	Institutional and Mission Support	View Signed Agreement
546	27634	University of Houston- Clear Lake	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

ROW F NO. M	PAM ID NUMBER	PARTNER NAME	TITLE/PURPOSE	SIGNATURE DATE	EXPIRATION DATE	TYPE OF AGREEMENT	TOTAL ESTIMATED DOLLAR VALUE OF NASA RESOURCES	CENTER	CENTER TRACKING NUMBER (IF ANY)	EXPECTED AGENCY BENEFIT(S)	LINK TO SIGNED AGREEMENT
547	27601	THE REGENTS OF THE UNIVERSITY OF COLORADO	Life and Microgravity Science Research Support	5/8/2019	5/7/2022	Non-Reimbursable	\$24,037	JSC	SAA-OZ-18-27601	Human Exploration and Operations	View Signed Agreement
548	27594	HOUSTON INDEPENDENT SCHOOL DISTRICT	Collaboration for STEM Engagement, Education, and Community Outreach Activities	8/28/2018	8/27/2023	Reimbursable	\$0	JSC	SAA-AD-18-27594	Education and/or Public Engagement	View Signed Agreement
549	27517	Rocklin Unified School	HIGH SCHOOL STUDENTS COLLABORATING WITH NASA TO PRODUCE HARDWARE OR OTHER USEFUL PRODUCTS UNDER THE HUNCH PROGRAM	5/8/2018	5/8/2023	Non-Reimbursable	\$12,603	JSC	SAA-OZ-18-27517	Human Exploration and Operations	View Signed Agreement
550	27425	Peanuts Worldwide, LLC	PUBLIC AND EDUCATION OUTREACH AND STEM PROJECTS	6/20/2018	6/20/2023	Non-Reimbursable	\$0	JSC	SAA-GA-18-27245	Education and/or Public Engagement	View Signed Agreement
551	27253	BIGELOW AEROSPACE	NON-REIMBURSABLE TO LOW-EARTH ORBIT COMMERCIAL DEVELOPMENT	3/30/2018	3/29/2023	Non-Reimbursable	\$70,348	JSC	OZ-18-27253	Human Exploration and Operations	View Signed Agreement
552	26943	Wheeling High School	High School Students Collaborating with NASA to Produce Hardware or Other Useful Products Under the High School Students United with NASA to Create Hardware (HUNCH) Program	3/21/2018	3/20/2023	Non-Reimbursable	\$12,835	JSC	SAA-OZ-18-26943	Human Exploration and Operations	View Signed Agreement

ROW F NO. N	PAM ID NUMBER	PARTNER NAME		SIGNATURE DATE	EXPIRATION DATE	TYPE OF AGREEMENT	TOTAL ESTIMATED DOLLAR VALUE OF NASA RESOURCES	CENTER	CENTER TRACKING NUMBER (IF ANY)	EXPECTED AGENCY BENEFIT(S)	LINK TO SIGNED AGREEMENT
553	26934	Hawthorne High School	Students Collaborating with NASA to Produce Hardware or Other Useful Products Under the High School Students United with NASA to Create Hardware (HUNCH) Program	3/23/2018	3/22/2023	Non-Reimbursable	\$33,644	JSC	SAA-OZ-18-26934	Human Exploration and Operations	View Signed Agreement
554	26933	Alief Independent School District	Students Collaborating with NASA to Produce Hardware or Other Useful Products Under the High School Students United with NASA to Create Hardware (HUNCH) Program	1/18/2018	1/18/2023	Non-Reimbursable	\$112,831	JSC	SAA-OZ-17-26933	Human Exploration and Operations	View Signed Agreement
555	26762		Commercial Space Launch Vehicle Developments	2/5/2018	2/5/2023	Reimbursable	\$0	JSC	SAA-UA3-17- 26762	Space Technology	View Signed Agreement
556	26418	BAY AREA HOUSTON ECONOMIC PARTNERSHIP	COOPERATIVE AND COMMUNITY OUTREACH ACTIVITIES	10/17/2017	10/16/2022	Non-Reimbursable	\$145,128	JSC	SAA-AD-18-26418	Institutional and Mission Support	View Signed Agreement
557	26205	5 Association	Umbrella Space Act Agreement Industrial Fabrics Association International (IFAI) Exposition	8/2/2018	8/2/2023	Non-Reimbursable	\$0	JSC	SAA-EA-17-26205	Education and/or Public Engagement, Technology Transfer	View Signed Agreement
558	26188	Bistrict	High School Students Collaborating with NASA to Produce Hardware or Other Useful Products Under the HUNCH Program	11/1/2017	10/31/2022	Non-Reimbursable	\$40,412	JSC	SAA-OZ-17-26188	Human Exploration and Operations	View Signed Agreement

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559	26179	Council Rock School District	High School Students Collaborating with NASA to Produce Hardware or Other Useful Products Under HUNCH	10/13/2017	10/12/2022	Non-Reimbursable	\$40,412	JSC	SAA-OZ-17-26179	Aeronautics	View Signed Agreement
560	26048	Microsoft Corporation	Non-Reimbursable Space Act Umbrella Agreement between the National Aeronautics and Space Administration Lyndon B. Johnson Space Center and Microsoft Corporation for Strategic Alliance for STEM Education Activities	2/6/2018	2/5/2023	Non-Reimbursable	\$0	JSC	SAA-AD-18-26048	Education and/or Public Engagement	View Signed Agreement
561	26023	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	9/30/2022	Reimbursable	\$250,000	JSC	SAA-CA-17-26023- 5	Institutional and Mission Support	View Signed Agreement
562	26021	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	9/30/2022	Reimbursable	\$750,000	JSC	SAA-CA-17-26021- 04	Institutional and Mission Support	View Signed Agreement
563		Raytheon Intelligence, Information and Services	Annex 3 Authorizing Remotely Operated Vehicles (ROV) and Autonomous Underwater Vehicles (AUV) Commercialization Activities Under the Neutral Buoyancy Laboratory (NBL) Operations Contract (NOC)	9/27/2017	9/30/2022	Reimbursable	\$2,000,000	JSC	SAA-CA-26017-03	Institutional and Mission Support	View Signed Agreement
564		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	9/30/2022	Reimbursable	\$15,000,000	JSC	SAA-CA-17-26016- 02	Institutional and Mission Support	View Signed Agreement

ROW P NO. N	PAM ID IUMBER	PARTNER NAME	TITLE/PURPOSE	SIGNATURE DATE	EXPIRATION DATE	TYPE OF AGREEMENT	TOTAL ESTIMATED DOLLAR VALUE OF NASA RESOURCES	CENTER	CENTER TRACKING NUMBER (IF ANY)	EXPECTED AGENCY BENEFIT(S)	LINK TO SIGNED AGREEMENT
565	26007	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	9/30/2022	Reimbursable	\$4,900,000		SAA-CA-17-26007- 01	Institutional and Mission Support	View Signed Agreement
566	26006	Raytheon Intelligence, Information and Services	Umbrella Agreement Authorizing Commercialization Activities Under the Neutral Buoyancy Laboratory (NBL) Operations Contract (NOC) Contract	9/27/2017	9/30/2022	Reimbursable	\$0	JSC	SAA-CA-17-26006	Institutional and Mission Support	View Signed Agreement
567	26003	ULSTER COUNTY BOARD OF COOPERATIVE EDUCATIONAL SERVICES	ULSTER COUNTY BOARD OF COOPERATIVE EDUCATIONAL SERVICES FOR HIGH SCHOOL STUDENTS COLLABORATING WITH NASA TO PRODUCE HARDWARE OR OTHER USEFUL PRODUCTS UNDER THE HUNCH PROGRAM	10/13/2017	10/12/2022	Non-Reimbursable	\$50,182	JSC	SAA-OZ-17-26003	Human Exploration and Operations	View Signed Agreement
568	25999	St. Mary`s County Public Schools	St. Mary`s County Public Schools for High School Students Collaborating with NASA to Produce Hardware or Other Useful Products Under the HUNCH Program	10/26/2017	10/26/2022	Non-Reimbursable	\$40,783	JSC	SAA-OZ-17-25999	Human Exploration and Operations	View Signed Agreement
569	25997	Saint John Valley Technology Center	Saint John Valley Technology Center for Students Collaborating with NASA to Produce Hardware or Other Useful Products Under the HUNCH Program	11/27/2017	11/26/2022	Non-Reimbursable	\$24,299	JSC	SAA-OZ-17-25997	Human Exploration and Operations	View Signed Agreement
570	25102	Greater Houston Partnership	Cooperative Community Outreach Activities	8/9/2017	8/9/2022	Non-Reimbursable	\$589,059	JSC	SAA-XA-17-25102	Technology Transfer	View Signed Agreement

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571	24326	Conway School District	Students Collaborating with NASA to Produce Hardware or Other Useful Products Under the HUNCH (High School Students United with NASA to Create Hardware) Program	11/1/2017	11/1/2022	Non-Reimbursable	\$236,218	JSC	SAA-OZ-17-24326	Human Exploration and Operations	View Signed Agreement
572	· · / · / h	Windsor Board of Education	Students Collaborating with NASA to Produce Hardware or Other Useful Products Under the HUNCH Program	11/28/2017	11/27/2022	Non-Reimbursable	\$231,674	JSC	SAA-OZ-17-24275	Human Exploration and Operations	View Signed Agreement
573	36366	Astra Space Operations	KCA-4695-2 Rev Basic, Reimbursable Umbrella SAA between NASA KSC and Astra Space Inc for Use of Center Capabilities	3/11/2022	9/30/2022	Reimbursable	\$27,421	KSC	KCA-4695-2	Human Exploration and Operations	View Signed Agreement
574	36352	Relativity Space, Inc.	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
575	36257	HSG, LLC 0/b/a HERNDON	KCA-4660-15 Rev. Basic, Annex 15 to Fully Reimbursable Umbrella SAA between NASA and HSG, LLC d/b/a Herndon Solutions Group for C3PW	3/1/2022	9/30/2022	Reimbursable	\$182	KSC	KCA-4660-15 Rev. Basic	Institutional and Mission Support	View Signed Agreement
576	36172	ROCKETSTAR, LLC	KCA-4701-2 Rev Basic annex to KCA-4701 Rev Basic, Reimbursable Umbrella SAA between NASA KSC and RocketStar LLC for Use of Center Capabilities	2/9/2022	9/30/2022	Reimbursable	\$38,417	KSC	KCA-4701-2 Rev Basic	Human Exploration and Operations	View Signed Agreement

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577	36130	Relativity Space, Inc.	KCA-4678-3 Rev. Basic Reimbursable Space Act Agreement (RSAA) Umbrella Between Relativity Space, Inc. and NASA Kennedy Space Center for Use of Center Capabilities	2/24/2022	12/31/2022	Reimbursable	\$245,247	KSC	KCA-4678-3 Rev Basic	Human Exploration and Operations	View Signed Agreement
578		SPACE EXPLORATION TECHNOLOGIES CORP	KCA-4513-25 Rev Basic , annex to Fully Reimbursable Space Act Umbrella Agreement between NASA and Space Exploration Technologies Corporation for Use of Kennedy Space Center Capabilities	2/9/2022	9/30/2022	Reimbursable	\$1,153	KSC	KCA-4513-25 Rev Basic	Human Exploration and Operations	View Signed Agreement
579	36090	Jacobs Technologies	KCA-4604-7 Rev Basic, Annex 7 to Fully Reimbursable Umbrella SAA between NASA and Jacobs Technology Inc for C3PW	2/2/2022	9/30/2022	Reimbursable	\$1,788	KSC	KCA-4604-7 Rev Basic	Institutional and Mission Support	View Signed Agreement
580	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
581	35845	ROCKETSTAR, LLC	KCA-4701, 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
582	35844		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

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583	35841	AMENTUM SERVICES,	KCA-4662-20 Rev Basic, Annex 20 to Fully Reimbursable Umbrella SAA between NASA and Amentum Services, Inc. for C3PW	12/7/2021	9/30/2022	Reimbursable	\$218	KSC	KCA-4662-20 Rev Basic	Institutional and Mission Support	View Signed Agreement
584	35779	AMENTUM SERVICES,	KCA-4662-18 Rev Basic, Annex 18 to Fully Reimbursable Umbrella SAA between NASA and Amentum Services, Inc. for C3PW	11/24/2021	9/30/2022	Reimbursable	\$5,259	KSC	KCA-4662-18 Rev Basic	Institutional and Mission Support	View Signed Agreement
585	35743		KCA-4700-1, Revision Basic Annex 1 to the Reimbursable Space Act Agreement (RSAA) Umbrella Between NASA Kennedy Space Center and Rocket Crafters, Inc. for Spaceport Integration Support		2/9/2027	Reimbursable	\$54,428	KSC	KCA-4700-1 Rev Basic	Institutional and Mission Support	View Signed Agreement
586	35742	Rocket Crafters, Inc	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
587	35721	INC	KCA-4662-19 Rev Basic, Annex 19 to Fully Reimbursable Umbrella SAA between NASA and Amentum Services, Inc. for C3PW	11/15/2021	9/30/2022	Reimbursable	\$413	KSC	KCA-4662-19 Rev Basic	Institutional and Mission Support	View Signed Agreement
588	35549	INC	KCA-4662-17 Rev Basic, Annex 17 to Fully Reimbursable Umbrella SAA between NASA and Amentum Services, Inc. for C3PW	10/25/2021	9/30/2022	Reimbursable	\$818	KSC	KCA-4662-17 Rev Basic	Institutional and Mission Support	View Signed Agreement

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589	35/16/	ASRC Federal Data	KCA-4559-36 Rev. Basic, Annex 36 to Fully Reimbursable Umbrella SAA between NASA and ASRC Federal Data Solutions for C3PW	9/30/2021	2/28/2023	Reimbursable	\$1,858	KSC	KCA-4559-36 Rev. Basic	Institutional and Mission Support	View Signed Agreement
590	36/1/3	ASRC Federal Data	KCA-4559-35 Rev. Basic, Annex 35 to Fully Reimbursable Umbrella SAA between NASA and ASRC Federal Data Solutions for C3PW	9/30/2021	9/30/2022	Reimbursable	\$1,544	KSC	KCA-4559-35 Rev. Basic	Institutional and Mission Support	View Signed Agreement
591	35389	Blue Origin Florida, LLC	KCA-4555-17 Rev Basic annex 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
592	35375		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	1/14/2022	1/14/2027	Reimbursable	\$83,261	KSC	KCA-4694-1 Rev. Basic	Institutional and Mission Support	View Signed Agreement
593	35374	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
594	35360	Astra Space Operations	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

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59	5 35359	Astra Space Operations	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
590	35327	EXPLORATION TECHNOLOGIES	KCA-4513-24 Rev Basic, annex to Fully Reimbursable Space Act Umbrella Agreement between NASA and Space Exploration Technologies Corporation for Use of Kennedy Space Center Capabilities	9/10/2021	9/30/2022	Reimbursable	\$106,193	KSC	KCA-4513-24 Rev Basic	Human Exploration and Operations	View Signed Agreement
59	35282	ASRC Federal Data	KCA-4559-34 Rev Basic, Annex 34 to Fully Reimbursable Umbrella SAA between NASA and ASRC Federal Data Solutions for C3PW	9/20/2021	2/28/2023	Reimbursable	\$97,446	KSC	KCA-4559-34 Rev Basic	Institutional and Mission Support	View Signed Agreement
598	3 35281	ASRC Federal Data	KCA-4559-33 Rev Basic, Annex 33 to Fully Reimbursable Umbrella SAA between NASA and ASRC Federal Data Solutions for C3PW	9/30/2021	2/28/2023	Reimbursable	\$188,578	KSC	KCA-4559-33 Rev Basic	Institutional and Mission Support	View Signed Agreement
599	9 35280	AMENTUM SERVICES,	KCA-4662-16 Rev Basic, Annex 16 to Fully Reimbursable Umbrella SAA between NASA and Amentum Services, Inc. for C3PW	10/19/2021	9/30/2022	Reimbursable	\$1,439	KSC	KCA-4662-16 Rev Basic	Institutional and Mission Support	View Signed Agreement
600) 35279	AMENTUM SERVICES,	KCA-4662-15 Rev Basic, Annex 15 to Fully Reimbursable Umbrella SAA between NASA and Amentum Services, Inc. for C3PW	10/7/2021	9/30/2022	Reimbursable	\$450	KSC	KCA-4662-15 Rev Basic	Institutional and Mission Support	View Signed Agreement

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601	35278	AMENTUM SERVICES,	KCA-4662-14 Rev Basic, Annex 14 to Fully Reimbursable Umbrella SAA between NASA and Amentum Services, Inc. for C3PW	10/7/2021	9/30/2022	Reimbursable	\$472	KSC	KCA-4662-14 Rev Basic	Institutional and Mission Support	View Signed Agreement
602	2 35277	AMENTUM SERVICES,	KCA-4662-13 Rev Basic, Annex 13 to Fully Reimbursable Umbrella SAA between NASA and Amentum Services, Inc. for C3PW	10/7/2021	9/30/2022	Reimbursable	\$353	KSC	KCA-4662-13 Rev Basic	Institutional and Mission Support	View Signed Agreement
603	3 35276	AMENTUM SERVICES,	KCA-4662-12 Rev Basic, Annex 12 to Fully Reimbursable Umbrella SAA between NASA and Amentum Services, Inc. for C3PW	10/7/2021	9/30/2022	Reimbursable	\$589	KSC	KCA-4662-12 Rev Basic	Institutional and Mission Support	View Signed Agreement
604	l 35269	Jacobs Technologies	KCA-4604-6 Rev Basic, Annex 6 to Fully Reimbursable Umbrella SAA between NASA and Jacobs Technology Inc for C3PW	9/29/2021	9/30/2022	Reimbursable	\$557,723	KSC	KCA-4604-6 Rev Basic	Institutional and Mission Support	View Signed Agreement
605	35215	HERNDON	KCA-4660-14 Rev. Basic, Annex 14 to Fully Reimbursable Umbrella SAA between NASA and HSG, LLC d/b/a Herndon Solutions Group for C3PW	9/30/2021	3/31/2022	Reimbursable	\$63	KSC	KCA-4660-14 Rev. Basic	Institutional and Mission Support	View Signed Agreement
600		HERNDON	KCA-4660-13 Rev. Basic, Annex 13 to Fully Reimbursable Umbrella SAA between NASA and HSG, LLC d/b/a Herndon Solutions Group for C3PW	9/30/2021	9/30/2022	Reimbursable	\$936	KSC	KCA-4660-13 Rev. Basic	Institutional and Mission Support	View Signed Agreement

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607	35202	HSG, LLC d/b/a HERNDON SOLUTIONS GROUP	KCA-4660-12 Rev. Basic, Annex 12 to Fully Reimbursable Umbrella SAA between NASA and HSG, LLC d/b/a Herndon Solutions Group for C3PW	9/30/2021	9/30/2022	Reimbursable	\$2,682	KSC	KCA-4660-12 Rev. Basic	Institutional and Mission Support	View Signed Agreement
608	35201	HSG, LLC d/b/a HERNDON SOLUTIONS GROUP	KCA-4660-11 Rev. Basic, Annex 11 to Fully Reimbursable Umbrella SAA between NASA and HSG, LLC d/b/a Herndon Solutions Group for C3PW	9/23/2021	9/30/2022	Reimbursable	\$736	KSC	KCA-4660-11 Rev. Basic	Institutional and Mission Support	View Signed Agreement
609	35200	HSG, LLC d/b/a HERNDON SOLUTIONS GROUP	KCA-4660-10 Rev. Basic, Annex 10 to Fully Reimbursable Umbrella SAA between NASA and HSG, LLC d/b/a Herndon Solutions Group for C3PW	9/30/2021	9/30/2022	Reimbursable	\$290	KSC	KCA-4660-10 Rev. Basic	Institutional and Mission Support	View Signed Agreement
610		HSG, LLC d/b/a HERNDON SOLUTIONS GROUP	KCA-4660-9 Rev. Basic, Annex 9 to Fully Reimbursable Umbrella SAA between NASA and HSG, LLC d/b/a Herndon Solutions Group for C3PW	9/30/2021	9/30/2022	Reimbursable	\$936	KSC	KCA-4660-9 Rev. Basic	Institutional and Mission Support	View Signed Agreement
611	34809	i echnology, Inc.	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		10/8/2024	Non-Reimbursable	\$40,324	KSC	KCA-4683-1 Rev Basic	Space Technology	View Signed Agreement
612	2 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

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613		SPACE EXPLORATION TECHNOLOGIES CORP	KCA-4513-23 Rev Basic, Annex No 23 to Fully Reimbursable Space Act Umbrella Agreement between NASA and Space Exploration Technologies Corporation for Use of Kennedy Space Center Capabilities		9/30/2022	Reimbursable	\$9,159,229	KSC		Human Exploration and Operations	View Signed Agreement
614	34751	Virgin Orbit	KCA-4680, Rev Basic, Annex 4 between NASA KSC and Virgin Orbit, LLC under Ames Space Act Umbrella Agreement SAA2-403586 for sharing Thermal Protection System (TPS) related Shuttle Orbiter specifications and providing NASA engineering expertise.	7/20/2021	7/20/2022	Reimbursable	\$4,842	KSC	KCA-4680 Rev Basic	Institutional and Mission Support	View Signed Agreement
615	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
616	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
617	34267		KCA-4555-15 Rev Basic, Annex 15 annex 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		Human Exploration and Operations	View Signed Agreement
618	34125	Blue Origin Florida, LLC	KCA-4555-13, 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		Human Exploration and Operations	View Signed Agreement

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619	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	9/30/2022	Reimbursable	\$146,292	KSC		Human Exploration and Operations	View Signed Agreement
620	34047	Axiom Space, LLC	KCA-4682, 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	1/24/2023	Reimbursable	\$10,344	KSC	KCA-4682-1 Rev Basic	Institutional and Mission Support	View Signed Agreement
621	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
622	34023		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	3/2/2021	3/2/2023	Reimbursable	\$314,026	KSC	KCA-4671-1 Rev. Basic	Human Exploration and Operations	View Signed Agreement
623	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
624	33991	PAE-SGT Partners LLC	KCA-4608 Rev Basic, Fully Reimbursable Umbrella SAA between NASA and PAE-SGT Partners LLC for C3PW	9/15/2021	3/31/2023	Reimbursable	\$0	KSC	KCA-4608 Rev Basic	Institutional and Mission Support	View Signed Agreement

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625	5 33890	Blue Origin Florida, LLC	KCA-4555-14, annex 14 to Fully Reimbursable Umbrella SAA Between NASA KSC and Blue Origin Florida, LLC for Use of Center Capabilities		12/3/2023	Reimbursable	\$23,936	KSC	KCA-4555-14 Rev Basic	Human Exploration and Operations	View Signed Agreement
620	33792	ORBITAL ATK, INC	KCA-4500-11, Annex 11 to Reimbursable Umbrella SAA between KSC and Orbital Sciences Corporation for Use of Center Capabilities	12/15/2020	8/23/2023	Reimbursable	\$59,545	KSC	KCA-4500-11 Rev Basic	Human Exploration and Operations	View Signed Agreement
627		SPACE EXPLORATION TECHNOLOGIES CORP	KCA-4513-22, Annex 22 to Fully Reimbursable Space Act Umbrella Agreement between NASA and Space Exploration Technologies Corporation for Use of Kennedy Space Center Capabilities	11/16/2020	9/30/2022	Reimbursable	\$86,844	KSC	KCA-4513-22 Rev Basic	Human Exploration and Operations	View Signed Agreement
628	3 33588	UNITED LAUNCH ALLIANCE, LLC	KCA-4556-34, Annex 34 to Fully Reimbursable SAA between United Launch Alliance, LLC and NASA for Use of Center Capabilities	10/21/2020	2/21/2023	Reimbursable	\$71,334	KSC	KCA-4556-34 Rev Basic	Human Exploration and Operations	View Signed Agreement
629		THE BOEING COMPANY	KCA-4515-9, Annex 9 to Reimbursable Umbrella SAA between NASA KSC and The Boeing Company for Use of Center Capabilities	11/17/2020	8/21/2023	Reimbursable	\$29,166	KSC	KCA-4515-9 Rev Basic	Human Exploration and Operations	View Signed Agreement
630		Southeast Coastal Ocean Observing Regional 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

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631	33494	HERNDON	Annex 2 to Fully Reimbursable Umbrella SAA between NASA and HSG, LLC d/b/a Herndon Solutions Group for C3PW	10/7/2020	9/30/2022	Reimbursable	\$1,289	KSC	KCA-4660-2 Rev Basic	Institutional and Mission Support	View Signed Agreement
632	33461	HERNDON	Fully Reimbursable Umbrella SAA between NASA and HSG, LLC d/b/a Herndon Solutions Group for C3PW	10/7/2020	9/30/2022	Reimbursable	\$0	KSC	KCA-4660 Rev Basic	Institutional and Mission Support	View Signed Agreement
633	33420	AMENTUM SERVICES, INC.	Fully Reimbursable Umbrella SAA between NASA and Amentum Services, Inc. for C3PW	10/29/2020	9/30/2022	Reimbursable	\$0	KSC	KCA-4662 Rev Basic	Institutional and Mission Support	View Signed Agreement
634	33334	THE BOEING	KCA-4515-8, Annex 8 to Reimbursable Umbrella SAA between NASA KSC and The Boeing Company for Use of Center Capabilities	9/15/2020	8/21/2023	Reimbursable	\$19,293	KSC	KCA-4515-8 Rev Basic	Human Exploration and Operations	View Signed Agreement
635		United States Department of Agriculture	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
636	33158	FLORIDA POWER & LIGHT	KCA-4655-1, Revision Basic Annex 1 to Reimbursable Space Act Umbrella Agreement Between NASA KSC and Florida Power and Light for Use of Center Services	6/17/2021	6/17/2022	Reimbursable	\$20,260	KSC	KCA-4655-1 Rev Basic	Institutional and Mission Support	View Signed Agreement

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637	33157	FLORIDA POWER & LIGHT	KCA-4655, Rev. Basic to Fully Reimbursable Umbrella Space Act Agreement (RUSAA) between NASA KSC and Florida Power and Light Company (FPL) for Services at KSC	6/17/2021	6/30/2022	Reimbursable	\$0	KSC	KCA-4655, Rev. Basic	Institutional and Mission Support	View Signed Agreement
638		United States Department of Agriculture	Memorandum of Understanding between USDA-ARS and KSC for Microgreens Research	10/20/2020	10/20/2023	Non-Reimbursable	\$386,829	KSC	KCA-4658 Rev Basic	Human Exploration and Operations, Space Technology	View Signed Agreement
639	32784		KCA-4556-33, Annex to Fully Reimbursable SAA between United Launch Alliance, LLC and NASA for Use of Center Capabilities	6/11/2020	2/21/2023	Reimbursable	\$280,677	KSC	KCA-4556-33 Rev Basic	Human Exploration and Operations	View Signed Agreement
640	32750	KT Engineering Corporation	KCA-4650-1, 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
641		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
642	32666	The University of	KCA-4648-1 Rev. Basic, of Reimbursable Space Act Agreement Annex 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		2/24/2027	Reimbursable	\$713,131	KSC	KCA-4648-1 Rev. Basic	Institutional and Mission Support	View Signed Agreement

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643	32665	University of Central Florida Board of Trustees	KCA-4648 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	2/25/2022	2/24/2027	Reimbursable	\$0	KSC	KCA-4648 Rev. Basic	Space Technology	View Signed Agreement
644	32270	Florida League of Cities	KCA-4601-2, 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	11/3/2023	Reimbursable	\$548,002	KSC	KCA-4601-2 Rev Basic	Space Technology	View Signed Agreement
645	32262	Space Perspective, Inc.	KCA-4641-1, Annex No. 1 to the Fully Reimbursable Umbrella SAA Between NASA KSC and Space Perspective, Inc. for Historical Weather Data Analysis	4/27/2020	4/27/2022	Reimbursable	\$2,593	KSC	KCA-4641-1 Rev Basic	Human Exploration and Operations	View Signed Agreement
646	32261		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
647	32230		KCA-4556-31,Annex 31 to Fully Reimbursable SAA between United Launch Alliance, LLC and NASA for Use of Center Capabilities	3/13/2020	2/21/2023	Reimbursable	\$84,571	KSC	KCA-4556-31 Rev Basic	Human Exploration and Operations	View Signed Agreement
648	32039	Blue Origin Florida, LLC	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

ROW F NO. N	PAM ID IUMBER	PARTNER NAME	TITLE/PURPOSE	SIGNATURE DATE	EXPIRATION DATE	TYPE OF AGREEMENT	TOTAL ESTIMATED DOLLAR VALUE OF NASA RESOURCES	CENTER	CENTER TRACKING NUMBER (IF ANY)	EXPECTED AGENCY BENEFIT(S)	LINK TO SIGNED AGREEMENT
649	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
650	31878	Blue Origin Florida, LLC	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
651	31537	UNITED LAUNCH ALLIANCE, LLC	Annex No. 28 to Fully Reimbursable SAA between United Launch Alliance, LLC and NASA for Use of Center Capabilities	11/14/2019	2/21/2023	Reimbursable	\$41,828,186	KSC		Human Exploration and Operations	View Signed Agreement
652	31382	THE BOEING COMPANY	KCA-4515-7, Reimbursable Umbrella SAA between NASA KSC and The Boeing Company for Use of Center Capabilities	10/17/2019	8/20/2023	Reimbursable	\$1,087,279	KSC	KCA-4515-7 Rev. Basic	Human Exploration and Operations	View Signed Agreement
653	31293	UNITED LAUNCH ALLIANCE, LLC	Annex No. 27 to Fully Reimbursable SAA between United Launch Alliance, LLC and NASA for Use of Center Capabilities	9/25/2019	2/21/2023	Reimbursable	\$701,300	KSC		Human Exploration and Operations	View Signed Agreement
654	31241	Eastern Florida State College	High Schools United with NASA to Create Hardware (HUNCH)	10/22/2019	10/22/2024	Non-Reimbursable	\$28,331	KSC	KCA-4629	Education and/or Public Engagement	View Signed Agreement

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655	31127	THE BOEING COMPANY	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	8/21/2023	Reimbursable	\$49,765	KSC	KCA-4515-3 Rev Basic	Human Exploration and Operations	View Signed Agreement
656	30997	SPACE EXPLORATION TECHNOLOGIES CORP	Annex No. 18 to Fully Reimbursable Space Act Umbrella Agreement between NASA and Space Exploration Technologies Corporation for Use of Kennedy Space Center Capabilities	9/16/2019	9/30/2022	Reimbursable	\$23,057	KSC		Human Exploration and Operations	View Signed Agreement
657	30833	SPACE COAST MACHINIST APPRENTICESHIP PROGRAM, INC.	KCA-4625, 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
658	30770	UNITED LAUNCH ALLIANCE, LLC	Annex No. 24 to Fully Reimbursable SAA between United Launch Alliance, LLC and NASA for Use of Center Capabilities (KCA- 4556-24)	7/19/2019	2/21/2023	Reimbursable	\$18,388	KSC		Human Exploration and Operations	View Signed Agreement
659	30494	UNIVERSITY OF DAYTON	Annex No. 2 to Reimbursable Umbrella SAA between KSC and University of Dayton for Corrosion Testing (KCA-4550-2)	9/11/2019	12/22/2022	Reimbursable	\$42,788	KSC	KCA-4550-2 Rev Basic	Institutional and Mission Support	View Signed Agreement
660	30212	Blue Origin Florida, LLC	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

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661	30165	Jacobs Technologies Inc.	Fully Reimbursable Umbrella SAA between NASA and Jacobs Technology Inc for C3PW	4/29/2019	9/30/2022	Reimbursable	\$0	KSC	KCA-4604 Rev Basic	Institutional and Mission Support	View Signed Agreement
662	2 30047	Blue Origin Florida, LLC	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
663	29903	MEMORIAL	Nonreimbursable SAA between NASA and the Astronaut Memorial Foundation for a NASA Exploration Station		4/5/2024	Non-Reimbursable	\$1,082,832	KSC	KCA-4605 Rev Basic	Institutional and Mission Support	View Signed Agreement
664	29841	Winston-Salem State University	KSC Food Production and Winston-Salem State University	7/24/2019	7/24/2023	Non-Reimbursable	\$85,105	KSC	KCA-4611 Rev Basic	Science	View Signed Agreement
665	5 29814	Florida League of Cities	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
666		Operations, LLC	KCA-4603, Nonreimbursable Space Act Agreement Between NASA KSC and Astrotech Space Operations, LLC for Reciprocal Access to Fiber Optic Communications Circuit	8/21/2019	8/21/2024	Non-Reimbursable	\$172,855	KSC	KCA-4603 Rev. Basic	Institutional and Mission Support	View Signed Agreement

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667	29787		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
668	29729	Blazing Trais	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	5/8/2019	5/8/2024	Non-Reimbursable	\$48,432	KSC	KCA-4606 Rev Basic	Education and/or Public Engagement	View Signed Agreement
669	29653	Pressure Dynamic Consultants PDC Machines Inc.	Research and Development of Hydrogen Liquid to Gas Conversion Machine	6/5/2019	9/30/2022	Reimbursable	\$96,304	KSC	KCA-4598-1 Rev Basic	Space Technology	View Signed Agreement
670	29652	5	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
671	29609	Blue Origin Florida, LLC	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
672	29503		Nonreimbursable 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

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673	29481	UNITED LAUNCH ALLIANCE, LLC	Annex No.13 to Fully Reimbursable SAA between United Launch Alliance, LLC and NASA for Use of Center Capabilities	12/3/2018	2/21/2023	Reimbursable	\$52,637	KSC	KCA-4556-13 Rev Basic	Human Exploration and Operations	View Signed Agreement
674	29404	Level 3 Communications, LLC	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
675	29277	BLUE ORIGIN, LLC	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
676	29276	Blue Origin Florida, LLC	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
677	29263	THE BOEING COMPANY	Annex No. 4 to Reimbursable Umbrella SAA between NASA KSC and The Boeing Company for Use of Center Capabilities	10/1/2018	8/21/2023	Reimbursable	\$58,740	KSC	KCA-4515-4 Rev Basic	Human Exploration and Operations	View Signed Agreement
678	29191	Volusia County Schools	KCA-4591, 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

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679	9 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
680) 29094	UNITED LAUNCH ALLIANCE, LLC	Annex No. 11 to Fully Reimbursable SAA between United Launch Alliance, LLC and NASA for Use of Center Capabilities	9/13/2018	2/21/2023	Reimbursable	\$1,126,281	KSC	KCA-4556-11 Rev Basic	Human Exploration and Operations	View Signed Agreement
68	29093	SPACE EXPLORATION TECHNOLOGIES CORP	Annex No. 11 to Fully Reimbursable Space Act Umbrella Agreement between NASA and Space Exploration Technologies Corporation for Use of Kennedy Space Center Capabilities		9/30/2022	Reimbursable	\$37,794	KSC	KCA-4513-11 Rev Basic	Human Exploration and Operations	View Signed Agreement
682	2 29072	SPACE EXPLORATION TECHNOLOGIES CORP	Annex No. 9 to Fully Reimbursable Space Act Umbrella Agreement between NASA and Space Exploration Technologies Corporation for Use of Kennedy Space Center Capabilities	9/11/2018	11/17/2022	Reimbursable	\$976,736	KSC	KCA-4513-9 Rev Basic	Human Exploration and Operations	View Signed Agreement
683	3 29049	UNITED LAUNCH ALLIANCE, LLC	Annex No. 7 to Fully Reimbursable SAA between United Launch Alliance, LLC and NASA for Use of Center Capabilities	9/11/2018	2/21/2023	Reimbursable	\$205,907	KSC	KCA-4556-7 Rev Basic	Human Exploration and Operations	View Signed Agreement
684	l 28929	ORBITAL ATK, INC	Annex No. 1 to Reimbursable Umbrella SAA between KSC and Orbital Sciences Corporation for Use of Center Capabilities	8/23/2018	8/23/2023	Reimbursable	\$982,519	KSC	KCA-4500-1 Rev Basic	Human Exploration and Operations	View Signed Agreement

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685	28928	ORBITAL ATK, INC	Reimbursable Umbrella SAA between KSC and Orbital Sciences Corporation for Use of Center Capabilities	8/23/2018	8/23/2023	Reimbursable	\$0	KSC	KCA-4500 Rev Basic	Human Exploration and Operations	View Signed Agreement
686	28870	THE BOEING COMPANY	Annex No. 1 to Reimbursable Umbrella SAA between NASA KSC and The Boeing Company for Use of Center Capabilities	8/21/2018	8/21/2023	Reimbursable	\$741,639	KSC	KCA-4515-1 Rev Basic	Human Exploration and Operations	View Signed Agreement
687	28869	THE BOEING COMPANY	Reimbursable Umbrella SAA between NASA KSC and The Boeing Company for Use of Center Capabilities	8/21/2018	8/21/2023	Reimbursable	\$0	KSC	KCA-4515 Rev Basic	Human Exploration and Operations	View Signed Agreement
688	28819	Polk State College	Nonreimbursable SAA between NASA and Polk State College for High School Students United with NASA to Create Hardware (HUNCH) Program Participation	8/6/2018	8/6/2023	Non-Reimbursable	\$57,191	KSC	KCA-4582 Rev Basic	Education and/or Public Engagement	View Signed Agreement
689		SPACE FLORIDA, AN INDEPENDENT SPECIAL DISTRICT OF THE STATE OF FLORIDA	Annex No.8 to Reimbursable Space Act Agreement with Space Florida for Use of Center Capabilities	4/18/2018	12/14/2022	Reimbursable	\$45,537	KSC	KCA-4548-8 Rev Basic	Institutional and Mission Support	View Signed Agreement
690	27912	University of Florida	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

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691	27911	University of Florida	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
692		SPACE EXPLORATION TECHNOLOGIES CORP	Annex No. 10 to Fully Reimbursable Space Act Umbrella Agreement between NASA and Space Exploration Technologies Corporation for Use of Kennedy Space Center Capabilities	2/23/2018	11/17/2022	Reimbursable	\$1,024,572	KSC	KCA-4513-10 Rev Basic	Human Exploration and Operations	View Signed Agreement
693	27641	ASRC Federal Data Solutions	Fully Reimbursable Umbrella SAA between NASA and ASRC Federal Data Solutions for C3PW	2/26/2018	2/28/2023	Reimbursable	\$0	KSC	KCA-4559 Rev Basic	Institutional and Mission Support	View Signed Agreement
694	27639	UNITED LAUNCH ALLIANCE, LLC	Annex No. 1 to Fully Reimbursable SAA between United Launch Alliance, LLC and NASA for Use of Center Capabilities	2/22/2018	2/22/2023	Reimbursable	\$1,798,149	KSC	KCA-4556-1 Rev Basic	Human Exploration and Operations	View Signed Agreement
695	27632	UNITED LAUNCH ALLIANCE, LLC	Fully Reimbursable SAA between United Launch Alliance, LLC and NASA for Use of Center Capabilities	2/22/2018	2/22/2023	Reimbursable	\$0	KSC	KCA-4556 Rev Basic	Human Exploration and Operations	View Signed Agreement
696	27587	SPACE FLORIDA, AN INDEPENDENT SPECIAL DISTRICT OF THE STATE OF FLORIDA	Annex No. 3 to Reimbursable Space Act Agreement with Space Florida for Use of Center Capabilities	2/19/2018	12/14/2022	Reimbursable	\$47,284	KSC	KCA-4548-3 Rev Basic	Institutional and Mission Support	View Signed Agreement

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697	27565	SPACE FLORIDA, AN INDEPENDENT SPECIAL DISTRICT OF THE STATE OF FLORIDA	Annex No. 5 to Reimbursable Space Act Agreement with Space Florida for Use of Center Capabilities	2/13/2018	12/14/2022	Reimbursable	\$196,203	KSC	KCA-4548-5 Rev Basic	Institutional and Mission Support	View Signed Agreement
698	27564	SPACE FLORIDA, AN INDEPENDENT SPECIAL DISTRICT OF THE STATE OF FLORIDA	Annex No. 4 to Reimbursable Space Act Agreement with Space Florida for Use of Center Capabilities	2/13/2018	12/14/2022	Reimbursable	\$18,865	KSC	KCA-4548-4 Rev Basic	Institutional and Mission Support	View Signed Agreement
699	27509	SPACE FLORIDA, AN INDEPENDENT SPECIAL DISTRICT OF THE STATE OF FLORIDA	Annex No 9 to Reimbursable Space Act Agreement with Space Florida for Use of Center Capabilities	1/18/2018	12/14/2022	Reimbursable	\$28,739	KSC	KCA-4548-9 Rev Basic	Institutional and Mission Support	View Signed Agreement
700	27507	SPACE FLORIDA, AN INDEPENDENT SPECIAL DISTRICT OF THE STATE OF FLORIDA	Annex No. 6 to Reimbursable Space Act Agreement with Space Florida for Use of Center Capabilities	1/18/2018	12/14/2022	Reimbursable	\$225,699	KSC	KCA-4548-6 Rev Basic	Institutional and Mission Support	View Signed Agreement
701	27506	SPACE FLORIDA, AN INDEPENDENT SPECIAL DISTRICT OF THE STATE OF FLORIDA	Annex No. 2 to Reimbursable Space Act Agreement with Space Florida for Use of Center Capabilities	1/18/2018	12/14/2022	Reimbursable	\$157,571	KSC	KCA-4548-2 Rev Basic	Institutional and Mission Support	View Signed Agreement
702	27290	UNIVERSITY OF DAYTON	Reimbursable Umbrella SAA between KSC and University of Dayton for Corrosion Testing	12/22/2017	12/22/2022	Reimbursable	\$0	KSC	KCA-4550 Rev Basic	Institutional and Mission Support	View Signed Agreement

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703	27258	SPACE FLORIDA, AN INDEPENDENT SPECIAL DISTRICT OF THE STATE OF FLORIDA	Annex No. 1 to Reimbursable Space Act Agreement with Space Florida for Use of Center Capabilities (Utilities, Operations, and Integration Support)	12/15/2017	12/14/2022	Reimbursable	\$8,322,361	KSC	KCA-4548-1 Rev Basic	Institutional and Mission Support	View Signed Agreement
704	27257	SPACE FLORIDA, AN INDEPENDENT SPECIAL DISTRICT OF THE STATE OF FLORIDA	Reimbursable Space Act Agreement with Space Florida for Use of Center Capabilities	12/14/2017	12/14/2022	Reimbursable	\$0	KSC	KCA-4548 Rev Basic	Institutional and Mission Support	View Signed Agreement
705	26866	SPACE EXPLORATION TECHNOLOGIES CORP	Annex No. 8 to Fully Reimbursable Space Act Umbrella Agreement between NASA and Space Exploration Technologies Corporation for Use of Kennedy Space Center Capabilities	12/2/2017	9/30/2022	Reimbursable	\$334,659	KSC	KCA-4513-8 Rev Basic	Human Exploration and Operations	View Signed Agreement
706	26865	SPACE EXPLORATION TECHNOLOGIES CORP	Annex No. 7 to Fully Reimbursable Space Act Umbrella Agreement between NASA and Space Exploration Technologies Corporation for Use of Kennedy Space Center Capabilities	12/2/2017	9/30/2022	Reimbursable	\$5,670	KSC	KCA-4513-7 Rev Basic	Human Exploration and Operations	View Signed Agreement
707	26861	SPACE EXPLORATION TECHNOLOGIES CORP	Annex No. 6 to Fully Reimbursable Space Act Umbrella Agreement between NASA and Space Exploration Technologies Corporation for Use of Kennedy Space Center Capabilities	12/2/2017	9/30/2022	Reimbursable	\$213,705	KSC	KCA-4513-6 Rev Basic	Human Exploration and Operations	View Signed Agreement
708	26860	SPACE EXPLORATION TECHNOLOGIES CORP	Annex No. 5 to Fully Reimbursable Space Act Umbrella Agreement between NASA and Space Exploration Technologies Corporation for Use of Kennedy Space Center Capabilities	12/2/2017	9/30/2022	Reimbursable	\$6,831,281	KSC	KCA-4513-5 Rev Basic	Human Exploration and Operations	View Signed Agreement

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709		SPACE EXPLORATION TECHNOLOGIES CORP	Annex No. 4 to Fully Reimbursable Space Act Umbrella Agreement between NASA and Space Exploration Technologies Corporation for Use of Kennedy Space Center Capabilities	12/2/2017	9/30/2022	Reimbursable	\$2,501,107	KSC	KCA-4513-4 Rev Basic	Human Exploration and Operations	View Signed Agreement
710		SPACE EXPLORATION TECHNOLOGIES CORP	Annex No. 3 to Fully Reimbursable Space Act Umbrella Agreement between NASA and Space Exploration Technologies Corporation for Use of Kennedy Space Center Capabilities	12/2/2017	9/30/2022	Reimbursable	\$237,225	KSC	KCA-4513-3 Rev Basic	Human Exploration and Operations	View Signed Agreement
711		SPACE EXPLORATION TECHNOLOGIES CORP	Annex No. 2 to Fully Reimbursable Space Act Umbrella Agreement between NASA and Space Exploration Technologies Corporation for Use of Kennedy Space Center Capabilities	12/2/2017	9/30/2022	Reimbursable	\$319,386	KSC	KCA-4513-2 Rev Basic	Human Exploration and Operations	View Signed Agreement
712		SPACE EXPLORATION TECHNOLOGIES CORP	Annex No. 1 to Fully Reimbursable Space Act Umbrella Agreement between NASA and Space Exploration Technologies Corporation for Use of Kennedy Space Center Capabilities	11/17/2017	11/17/2022	Reimbursable	\$6,621,277	KSC	KCA-4513-1 Rev Basic	Human Exploration and Operations	View Signed Agreement
713		SPACE EXPLORATION TECHNOLOGIES CORP	Fully Reimbursable Space Act Umbrella Agreement between NASA and Space Exploration Technologies Corporation for Use of Kennedy Space Center Capabilities	11/17/2017	11/17/2022	Reimbursable	\$0	KSC	KCA-4513 Rev Basic	Human Exploration and Operations	View Signed Agreement
714	26738	Valencia College	Nonreimbursable SAA between NASA and Valencia College for High School Students United with NASA to Create Hardware (HUNCH) Program Participation	9/7/2017	9/7/2022	Non-Reimbursable	\$227,557	KSC	KCA-4528 Rev Basic	Education and/or Public Engagement	View Signed Agreement

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715	25967		KCA-4544 Rev Basic Reimbursable Umbrella SAA with RUAG SPACE USA, INC for NASA Testing Services	9/21/2017	9/21/2022	Reimbursable	\$0	KSC	KCA-4544 Rev Basic	Human Exploration and Operations	View Signed Agreement
716	24609		KCA-4517 Rev Basic, Nonreimbursable SAA between NASA KSC and the School Board of Seminole County, FL for High School Students United with NASA to Create Hardware (HUNCH) Program Participation	10/19/2017	10/19/2022	Non-Reimbursable	\$277,277	KSC	KCA-4517 Rev Basic	Education and/or Public Engagement	View Signed Agreement
717	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	SAA 1-30290, Annex 2	Space Technology, Education and/or Public Engagement	View Signed Agreement
718	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
719	36296	Newport News Public School District	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
720	36146		LSMS PROTOTYPE DISASSEMBLY AND REASSEMBLY	2/8/2022	6/8/2022	Reimbursable	\$29,883	LaRC	SAA2-403403, Annex 6	Space Technology	View Signed Agreement

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721	361/1/		Induced Loads and Environments Support for the ISS CRS2 Program	2/18/2022	9/30/2022	Reimbursable	\$60,890	LaRC	SAA1-36144	Space Technology	View Signed Agreement
722	2 36078	ASTROBOTIC TECHNOLOGY, INC	Optical Precision Autonomous Landing (OPAL) Sensor Flight Tests	2/1/2022	8/31/2022	Reimbursable	\$161,920	LaRC	SAA8-1930516 - ANNEX 8	Space Technology	View Signed Agreement
723	3 36063	FLEXcon Company,	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
724	4 36002	Psionic, LLC	Amendment to Space Technology Commercialization for Measurement and Materials Applications	12/13/2021	12/13/2026	Reimbursable	\$0	LaRC	SAA1-35776, Mod 1	Space Technology	View Signed Agreement
725	5 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
726			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

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727			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
728	35777	Psionic, LLC	Subject Matter Expertise Support for Commercialization of Navigation Doppler Lidar Generation 4 Technology	12/13/2021	12/13/2022	Reimbursable	\$117,544	LaRC	SAA1-35776, Annex 1	Space Technology	View Signed Agreement
729	35776		Space Technology Commercialization for Measurement and Materials Applications	12/13/2021	12/13/2026	Reimbursable	\$0	LaRC	SAA1-35776	Space Technology	View Signed Agreement
730	35642		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
731	35566		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
732	35421		annex to 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

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73:	35418		New Glenn Launch Vehicle Flight Dynamics Assessment	12/10/2021	12/10/2022	Reimbursable	\$270,505	LaRC	SAA2-403403, Annex 5	Space Technology	View Signed Agreement
734	35298		NESC Collaboration on Additive Manufacturing Process Understanding	12/17/2021	12/17/2022	Non-Reimbursable	\$82,047	LaRC	SAA1-35298	Human Exploration and Operations	View Signed Agreement
73	5 35139	Radford University	NASA's Modeling and Simulation-Based Educator Professional Development (EPD) Workshop for High School Mathematics	8/25/2021	8/25/2022	Non-Reimbursable	\$24,327	LaRC	SAA1-32792, Annex 2	Education and/or Public Engagement	View Signed Agreement
736	35097		Annex to Collaboration Research, Development, and Testing	8/19/2021	2/19/2023	Non-Reimbursable	\$9,027	LaRC	SAA1-34376, Annex 4	Aeronautics	View Signed Agreement
737	35070	Varda Space Industries	EDL Analysis Support	8/16/2021	8/16/2023	Reimbursable	\$139,290	LaRC	SAA1-35070	Space Technology	View Signed Agreement
738		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

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739	34962	Blue Origin, LLC	Hypersonic Aerophysics Support of Blue Origin Reusable Second Stage Project	8/30/2021	9/30/2022	Reimbursable	\$74,399	LaRC	SAA2-403403, Annex 3	Space Technology	View Signed Agreement
740	34858	Skydio, Inc.	Flight Testing and Integration of UAS for Autonomous Surveillance Inspection and Emergency Response Operations	9/9/2021	9/9/2023	Non-Reimbursable	\$204,568	LaRC	SAA2-403630, Annex 2	Aeronautics	View Signed Agreement
741	34769	idoodIEDU, inc	Support of the Cubes in Space Initiative	8/13/2021	8/13/2026	Non-Reimbursable	\$46,355	LaRC		Education and/or Public Engagement	View Signed Agreement
742	34765	TEXAS A&M UNIVERSITY	COLLABRITIVE RESEARCH AND DEVELOPMENT IN THE AREA OF HYPERSONIC TECHNOLOGIES	1/18/2022	1/18/2024	Non-Reimbursable	\$385,882	LaRC	SAA1-34764, Annex 1	Aeronautics	View Signed Agreement
743	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
744	34717	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	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

ROV NO.	V PAM II NUMB		TITLE/PURPOSE	SIGNATURE DATE	EXPIRATION DATE		TOTAL ESTIMATED DOLLAR VALUE OF NASA RESOURCES	CENTER	CENTER TRACKING NUMBER (IF ANY)		LINK TO SIGNED AGREEMENT
74	15 34	637 Tethers Unlimited, Inc.	Concept Studies for Low-Cost Debris Collection, Transportation, and In-Space Manufacturing & Assembly	9/28/2021	9/28/2023	Non-Reimbursable	\$89,948	LaRC	SAA1-34637	Space Technology	View Signed Agreement
74	6 34	519 Federal Bureau of Investigation	Evaluation of Prognostic Services for Autonomous Air Vehicles in Urban Environments	7/8/2021	1/8/2023	Non-Reimbursable	\$62,003	LaRC	IA1-34519	Aeronautics	View Signed Agreement
74	17 34	377 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
74	18 34	376 Old Dominion University	Collaboration Research, Development, and Testing	5/3/2021	5/3/2026	Non-Reimbursable	\$0	LaRC	SAA1-34376	Aeronautics	View Signed Agreement
74	9 34	374 Honeywell International, Inc.	Acoustic Liner Tests	4/30/2021	4/30/2022	Reimbursable	\$113,132	LaRC	SAA1-34374	Aeronautics	View Signed Agreement
75	50 34	298 Lehigh University	Mentoring for University Technical Entrepreneurship Program	4/28/2021	4/28/2023	Non-Reimbursable	\$5,371	LaRC	SAA1-34298	Aeronautics	View Signed Agreement

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751	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,	Space Technology, Education and/or Public Engagement, Technology Transfer	View Signed Agreement
752	34287		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
753	34273		Beyond Visual Line Of Sight (BVLOS) UAS Flight Corridor Development for Advanced Air Mobility (AAM) High Density Vertiplex Flight Test	4/12/2021	4/30/2022	Non-Reimbursable	\$92,416	LaRC	SAA1-34272, Annex 1	Aeronautics	View Signed Agreement
754	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
755	34241	MATERIALS RESEARCH AND DESIGN, INC	Carbon/Carbon Aeroshell Testing to Delay Hypersonic Boundary-Layer Transition	2/9/2022	9/30/2023	Non-Reimbursable	\$245,701	LaRC	SAA1-34241	Aeronautics	View Signed Agreement
756	34227		Collaborative Research on Model Fusion for Efficient Uncertainty Quantification	4/15/2021	4/15/2022	Non-Reimbursable	\$7,145	LaRC	SAA1-34227	Aeronautics	View Signed Agreement

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757	3421	5 Stevens Institute of Technology	Boundary Layer Measurements with Advanced Diagnostics	5/3/2021	9/30/2023	Non-Reimbursable	\$302,727	LaRC	SAA1-34215	Aeronautics	View Signed Agreement
758	3381	6 Aerion Corporation	High Mach Aircraft Research, Development and Collaboration	1/19/2021	9/30/2022	Non-Reimbursable	\$530,716	LaRC	SAA1-33813, Annex 1	Aeronautics	View Signed Agreement
759	3381	3 Aerion Corporation	Aerospace Research Development and Collaboration	1/19/2021	1/19/2026	Non-Reimbursable	\$0	LaRC	SAA1-33813	Aeronautics	View Signed Agreement
760	3368	1 BNNT, LLC	annex to DEVELOPMENT AND OPTIMIZATION OF BORON NITRIDE NANOTUBES	10/1/2021	10/1/2022	Non-Reimbursable	\$28,106	LaRC	SAA1-30606, Annex 2	Space Technology	View Signed Agreement
761	3358	NAVAL SUBMARINE 6 MEDICAL RESEARCH LABORATORY	RESEARCH ON WARFIGHTER PERFORMANCE	2/4/2022	2/4/2027	Non-Reimbursable	\$24,546	LaRC	IA1-33586	Aeronautics	View Signed Agreement
762	3352	4 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

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763	33523		Aerospace Research Technology, Development, Testing and Evaluation	2/7/2022	2/7/2027	Non-Reimbursable	\$0	LaRC	SAA1-33523	Aeronautics	View Signed Agreement
764		-	HYMETS TESTING USING REMOTE SPECTRAL SENSORS	1/4/2021	9/30/2022	Reimbursable	\$35,106	LaRC	SAA1-33356	Aeronautics	View Signed Agreement
765	33329		Investigation of Novel Usage of Embedded High Resistance Caps	9/15/2020	6/15/2022	Non-Reimbursable	\$18,976	LaRC	SAA1-33328, Annex 1	Aeronautics	View Signed Agreement
766	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
767		The Governors School for Science and Technology	STEM Education Collaboration	9/24/2020	9/24/2023	Non-Reimbursable	\$49,366	LaRC		Education and/or Public Engagement	View Signed Agreement
768	33280		annex to Non-Reimbursable Umbrella between NASA LARC and FAA for ADVANCED AIR MOBILITY ECOSYSTEM LABORATORY INTEGRATION	6/26/2019	6/26/2024	Non-Reimbursable	\$3,557,295	LaRC	SAA1-30149, Annex 3	Aeronautics	View Signed Agreement

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769			Cone-Traverse Study and testing in the Langley Aerothermodynamics Laboratory	11/12/2020	9/30/2022	Non-Reimbursable	\$242,218	LaRC	SAA1-33217	Aeronautics	View Signed Agreement
770	33199	SkyCorp, Inc.	Skycorp Orbital Logistics Vehicle	3/1/2021	3/1/2026	Reimbursable	\$0	LaRC	SAA1-33199	Space Technology	View Signed Agreement
771	33115		LABORATORY AND FACILITY USE FOR BNNT RESEARCH	10/1/2020	9/30/2022	Reimbursable	\$10,758	LaRC	SAA1-31764, Annex 3	Space Technology	View Signed Agreement
772	32988		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
773	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
774	32960	SPECTRAL ENERGIES, LLC (SE)	High-Speed, Noninvasive, Multi-Parameter Laser Diagnostics for Transonic Flows	7/22/2020	7/22/2022	Non-Reimbursable	\$66,615	LaRC	SAA1-32960	Space Technology	View Signed Agreement

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775	5 32894		Evaluation of Lunar Dust Simulant Adhesion on Advanced Commercial Materials	9/15/2020	5/15/2022	Non-Reimbursable	\$14,416	LaRC	SAA1-32894	Space Technology	View Signed Agreement
776	32810	IK UNIT S Corporation	Evaluation of Facesheets with Variable Geometry	8/13/2020	10/13/2022	Non-Reimbursable	\$6,226	LaRC	SAA1-32809, Annex 1	Aeronautics	View Signed Agreement
777	32809		Investigation of Liner Facesheet Manufacturing Innovations	8/13/2020	8/13/2025	Non-Reimbursable	\$0	LaRC	SAA1-32809	Aeronautics	View Signed Agreement
778	3 32792	Radford University	Collaboration between NASA and Radford University's Modeling and Simulation Institute	8/3/2020	8/3/2025	Non-Reimbursable	\$0	LaRC	SUN1-37707	Education and/or Public Engagement	View Signed Agreement
779	4 4 7 7 4 5	National Institute of	Transition Prediction and Control for Blunt Hypersonic Configurations with Hemispherical and Ogival Nosetips	7/22/2020	3/31/2023	Reimbursable	\$12,630	LaRC	SAA1-31764, ANNEX 2	Aeronautics	View Signed Agreement
780	32708		Free-Spin Test in the NASA LaRC Vertical Spin Tunnel	4/12/2021	4/12/2022	Reimbursable	\$280,748		SAA1-32707, Annex 1	Aeronautics	View Signed Agreement

	PAM ID NUMBEF	PARTNER NAME	TITLE/PURPOSE	SIGNATURE DATE	EXPIRATION DATE	TYPE OF AGREEMENT	TOTAL ESTIMATED DOLLAR VALUE OF NASA RESOURCES	CENTER	CENTER TRACKING NUMBER (IF ANY)	EXPECTED AGENCY BENEFIT(S)	LINK TO SIGNED AGREEMENT
781	3270	7 Lockheed Martin	Wind Tunnel Testing	4/12/2021	4/12/2026	Reimbursable	\$0	LaRC	SAA1-32707	Aeronautics	View Signed Agreement
782	3270	0 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
783	3266		Stitched/Resin-Infused Composites Material Characterization and Sub-Component Development	10/2/2020	2/22/2023	Non-Reimbursable	\$197,631	LaRC	SAA1-32662, Annex 1	Aeronautics	View Signed Agreement
784	3266	2 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
785	3265	JOHNS HOPKINS UNIVERSITY / APPLIED PHYSICS LAB	Dynamic Balance Proof of Concept Study	9/3/2020	9/30/2022	Non-Reimbursable	\$270,898	LaRC	SAA1-32651	Aeronautics	View Signed Agreement
786	3264	⁴ University of California San Diego	Investigation of bulk metallic glass materials for space applications	11/17/2020	11/17/2022	Non-Reimbursable	\$9,016	LaRC	SAA1-32643- ANNEX 1	Space Technology	View Signed Agreement

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78	7 32643		COLLABORATIVE AEROSPACE RESEARCH AND OUTREACH	11/17/2020	11/17/2025	Non-Reimbursable	\$0	LaRC	SAA1-32643	Space Technology	View Signed Agreement
78	3 32602	Purdue University	Investigation of Wear-Resistant Materials for Space Applications	7/16/2020	7/16/2022	Non-Reimbursable	\$9,016	LaRC	SAA1-32601- ANNEX 1	Space Technology	View Signed Agreement
78	9 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
79) 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
79	1 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
79	2 32550	US Naval Research Laboratory	NRL/NASA Yuma Acoustics Flight Test	9/3/2020	9/30/2022	Non-Reimbursable	\$218,171	LaRC	IA1-32550	Aeronautics	View Signed Agreement

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793	32527	Federal Aviation Administration	NASA/FAA Yuma Acoustics Flight Test	7/15/2020	1/31/2023	Non-Reimbursable	\$255,746	LaRC	IA1-32527	Aeronautics	View Signed Agreement
794		UNIVERSITY OF NORTH DAKOTA	Investigation of Novel Wear-Resistant Materials for Space Applications	7/24/2020	7/24/2023	Non-Reimbursable	\$39,258	LaRC	SAA1-32507- Annex 1	Space Technology	View Signed Agreement
795		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
796	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
797	32298		A Joint Public Lecture Series Entitled The Sigma Series	7/30/2020	7/30/2025	Non-Reimbursable	\$105,598	LaRC		Education and/or Public Engagement	View Signed Agreement
798	32252	Blue Origin, LLC	Provide Forced Oscillation Testing in Transonic Dynamics Tunnel for the Blue Origin Crew Capsule	11/4/2020	8/31/2022	Reimbursable	\$126,803	LaRC	SAA2-403403, Annex 2	Space Technology	View Signed Agreement

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799			Mentoring for Commercializing Emerging Technologies Studies	8/10/2021	8/10/2026	Non-Reimbursable	\$9,313	LaRC	SAA1-32242	Technology Transfer	View Signed Agreement
800	32166	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
80'	32091	INTEL CORPORATION	FABRICATION OF COPPER AND DIAMOND - COMPOSITE TEST SAMPLES	8/17/2021	10/31/2022	Reimbursable	\$95,000	LaRC	SAA1-32088- Annex 1	Space Technology	View Signed Agreement
802	2 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
803			Composites NDE standards library and database administration	4/24/2020	4/24/2025	Non-Reimbursable	\$23,548	LaRC	SAA1-32044	Aeronautics	View Signed Agreement
804	4 32037		High Mach Aircraft Research and Development Collaboration	11/9/2020	11/9/2025	Non-Reimbursable	\$540,705	LaRC	SAA1-32036, Annex 1	Aeronautics	View Signed Agreement

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805	3203(Collaboration for Aerospace Research, Development and Testing	11/9/2020	11/9/2025	Non-Reimbursable	\$0	LaRC	SAA1-32036	Aeronautics	View Signed Agreement
806	31974	4 TEXAS A&M UNIVERSITY	Boundary Layer Turbulence (BOLT) Flight II Experiments	4/23/2021	9/30/2022	Non-Reimbursable	\$256,604	LaRC	SAA1-31974	Aeronautics	View Signed Agreement
807	3187 [.]	1 Federal Aviation Administration	Advanced Additive Manufacturing Technologies	5/7/2020	5/7/2022	Non-Reimbursable	\$18,197	LaRC	IA1-31870, Annex 1	Aeronautics	View Signed Agreement
808	3187	D Federal Aviation Administration	Advanced Additive Manufacturing Technologies	5/7/2020	5/7/2025	Non-Reimbursable	\$0	LaRC	IA1-31870	Aeronautics	View Signed Agreement
809	3176	5 National Institute of Aerospace	Novel Concepts for Transition Delay in Hypersonic Boundary Layers Support	7/17/2020	3/31/2023	Reimbursable	\$12,630		SAA1-31764, Annex 1	Aeronautics	View Signed Agreement
810	3176 [,]	4 National Institute of Aerospace	RESEARCH, EDUCATIONAL OUTREACH, AND TESTING ACTIVITIES	7/17/2020	7/17/2025	Reimbursable	\$0	LaRC		Aeronautics, Science, Space Technology	View Signed Agreement

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81	1 31663		Collaboration to Commercialize High Mach Aircraft	3/20/2020	3/20/2025	Non-Reimbursable	\$0	LaRC	SAA1-31663	Aeronautics	View Signed Agreement
81	2 31409	ASX Composites	Co-Cure-Ply Materials Development	11/26/2019	4/27/2022	Non-Reimbursable	\$123,983	LaRC	SAA1-31409	Aeronautics	View Signed Agreement
81	3 31140		Evaluation of Acoustic Liners for Fan Noise Reduction	10/9/2019	10/9/2024	Reimbursable	\$0	LaRC	SAA1-31140	Aeronautics	View Signed Agreement
81	4 30948	Honda Aircraft Company LLC	Honda Aircraft Company Wind Tunnel Testing	9/5/2019	9/5/2022	Reimbursable	\$0	LaRC	SAA1-30948	Aeronautics	View Signed Agreement
81	5 30831	U.S. Department of Defense	STATISTICAL ENGINEERING INFORMATION EXCHANGE	9/24/2021	9/24/2026	Non-Reimbursable	\$292,435	LaRC	IA1-30831	Institutional and Mission Support	View Signed Agreement
81	6 30707		Autonomous Flight Control Development for Electric VTOL Vehicles	1/18/2020	12/31/2023	Non-Reimbursable	\$124,163		SAA1-30706, Annex 1	Aeronautics	View Signed Agreement

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817	30	706 MOOG, INC	AEROSPACE RESEARCH TECHNOLOGY AND DEVELOPMENT	1/18/2020	1/18/2025	Non-Reimbursable	\$0	LaRC	SAA1-30706	Aeronautics	View Signed Agreement
818	30	606 BNNT, LLC	DEVELOPMENT AND OPTIMIZATION OF BORON NITRIDE NANOTUBES	8/21/2019	8/21/2024	Non-Reimbursable	\$0	LaRC	SAA1-30606	Space Technology	View Signed Agreement
819	30	National Oceanic and 498 Atmospheric Administration	Utilizing Satellite and In-Situ Data to Address Environmental Issues and Improve Decision- making	9/1/2019	9/30/2024	Reimbursable	\$250,000	LaRC	IA1-30498 / NCEI- CDR-19-000	Science	View Signed Agreement
820	30	411 Naval Information Warfare Center Atlantic	EMBEDDED PERSONNEL ASSIGNMENT TO NASA LANGLEY RESEARCH CENTER	10/5/2019	10/5/2022	Reimbursable	\$40,426	LaRC	IA1-30411	Space Technology	View Signed Agreement
821	30	237 HRL Laboratories, LLC	Evaluation of Aerospace Coatings for Mitigation of Environmental Contaminants	9/30/2019	9/30/2022	Reimbursable	\$14,128	LaRC	SAA1-30237	Aeronautics	View Signed Agreement
822	29	851 Exothermics, Inc.	Thermochemical Response of UHT Hypersonic Leading-Edge Candidates	3/26/2019	9/30/2022	Reimbursable	\$70,000	LaRC	SAA1-29851	Aeronautics	View Signed Agreement

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823	29707	Calspan-University at Buffalo Research Center	FREESTREAM MEASUREMENT TESTING	3/6/2019	11/30/2022	Non-Reimbursable	\$2,256	LaRC	SAA1-29707	Aeronautics	View Signed Agreement
824	29424		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
825	29215	Purdue University	Deployable Composite Sail Structure Materials Modeling Research	2/22/2019	9/30/2023	Non-Reimbursable	\$15,826		SAA1-29213, Annex 2	Space Technology	View Signed Agreement
826	29213		Deployable Composite Solar Sail Structural Research	2/21/2019	2/21/2024	Non-Reimbursable	\$0	LaRC	SAA1-29213	Space Technology	View Signed Agreement
827	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
828	28174		Revolutionary Fabrication Methods and Materials Testing of Advanced Materials	7/17/2018	7/17/2023	Reimbursable	\$0	LaRC	SAA1-28174	Space Technology	View Signed Agreement

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829	27921		Cooperative Research Activities In Manufacturing Technologies	7/13/2018	7/13/2023	Reimbursable	\$0	LaRC	SAA1-27921	Technology Transfer	View Signed Agreement
830	27829	Boom Supersonic	Aerospace Research and Development	5/8/2018	5/8/2023	Reimbursable	\$0	LaRC	SAA1-27829	Aeronautics	View Signed Agreement
831	27785	George Mason University	Interatomic Potential Development for Molecular Dynamics Simulations	5/31/2018	5/31/2023	Non-Reimbursable	\$278,363	LaRC	SAA1-27785	Aeronautics, Science, Space Technology, Technology Transfer	View Signed Agreement
832	27263	BLACK LABORATORIES, LLC	Materials Characterization	4/18/2018	4/18/2022	Reimbursable	\$88,625	LaRC	SAA1-27263	Aeronautics, Space Technology	View Signed Agreement
833		Hyperloop Transportation Technologies	Research, Development, and Testing of Aerospace Technologies	1/30/2018	1/30/2023	Reimbursable	\$0	LaRC	SAA1-26728	Aeronautics	View Signed Agreement
834	26344	ALASKA AIRLINES	Research and Development Collaboration	9/25/2017	9/25/2022	Non-Reimbursable	\$0	LaRC	SAA1-26344	Aeronautics	View Signed Agreement

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835	2574	3 Air Force Research Laboratory	Annex to Research and Development of Aerospace Technologies with AFRL in the Area of Vehicle Verification and Validation Support	9/29/2018	2/2/2023	Non-Reimbursable	\$659,089	LaRC	IA1-23795, Annex 2	Aeronautics	View Signed Agreement
836	25384	4 NORFOLK STATE UNIVERSITY	ADVANCED CAPABILITIES FOR AERONAUTICS RESEARCH AND GROUND FACILITY TESTING	11/13/2017	11/13/2022	Non-Reimbursable	\$273,295	LaRC	SAA1-25384	Science	View Signed Agreement
837	2379	5 Air Force Research Laboratory	Research and Development of Aerospace Technologies to Infuse Appropriate Technology into Important Applications	2/2/2018	2/2/2023	Non-Reimbursable	\$0	LaRC	IA1-23795	Aeronautics	View Signed Agreement
838	2221	7 Infrasonix-Inc	Infrasonix Stethoscope Evaluation Over Human Subjects	11/28/2017	11/28/2022	Reimbursable	\$0	LaRC	SAA1-22217	Technology Transfer	View Signed Agreement
839	3632	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
840	3631		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

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841	36164		Annex for waterflow testing of scaled pump configurations in extreme environments	2/27/2022	2/27/2023	Reimbursable	\$725,283	MSFC	SAA8-1931648.2	Aeronautics	View Signed Agreement
842			Air Force Aerospike Integration and Suborbital Experiment (ARISE) launch vehicle wind tunnel test		2/5/2023	Reimbursable	\$89,488	MSFC	SAA8-2031673.5	Institutional and Mission Support	View Signed Agreement
843	36010	RUAG Space USA, Inc	annex to Ruag Engineering Services	2/7/2022	2/6/2023	Reimbursable	\$36,794	MSFC	SAA8-1829459.4	Institutional and Mission Support	View Signed Agreement
844	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
845	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
846	35882	Ansys, Incorporated	Ansys System Model Demonstration	1/28/2022	7/27/2022	Non-Reimbursable	\$1,590	MSFC	SAA8-2135882	Human Exploration and Operations	View Signed Agreement

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847	35704		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
848	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
849	35669	$()$ n_{VV} $\Delta arosnaca$	Assessment of Generic Service Module - Phase 1	1/12/2022	1/11/2023	Reimbursable	\$94,791	MSFC	SAA8-2135668.1	Human Exploration and Operations	View Signed Agreement
850	35668	Onyx Aerospace	Multi-purpose Service Module Study	1/12/2022	1/11/2027	Reimbursable	\$0	MSFC		Human Exploration and Operations	View Signed Agreement
851	35637	United Launch Alliance	Annex to Launch Vehicle Manufacturing and Test Support	11/10/2021	5/9/2022	Reimbursable	\$43,811	MSFC	SAA8-1726580.11	Institutional and Mission Support	View Signed Agreement
852		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

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853	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
854		OCHSNER CLINIC FOUNDATION	Ochsner Clinic Foundation	11/1/2021	10/31/2026	Reimbursable	\$400,000	MSFC		Human Exploration and Operations	View Signed Agreement
855		KT Engineering Corporation	Thermal, CFD, and Acoustic analysis and support of the USAF ARISE Program	10/26/2021	10/25/2022	Reimbursable	\$44,144	MSFC	SAA8-2031673.4	Aeronautics	View Signed Agreement
856	35130	NVIDIA Corporation	THE DISCOVERY, ACCESS AND USE OF LARGE SCIENCE DATASETS	2/8/2022	2/8/2024	Non-Reimbursable	\$688,028	MSFC	SAA8-2135129.1	Science	View Signed Agreement
857	35129		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
858	35102	United Launch Alliance	Annex to Launch Vehicle Manufacturing and Test Support	10/31/2017	10/31/2022	Reimbursable	\$77,407	MSFC	SAA8-1726580.10	Institutional and Mission Support	View Signed Agreement

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859	35037		annex 34 to Exchange of Technical Expertise for commercial space transportation	11/30/2021	8/30/2022	Reimbursable	\$133,559	MSFC	SAA8-1725986.34	Space Technology, Institutional and Mission Support	View Signed Agreement
860	34972	BLUE ORIGIN, LLC	Consultation and Exchange of expertise for development of avionics for commercial space transportation	11/30/2021	8/30/2022	Reimbursable	\$20,417	MSFC	SAA8-1725986.33	Human Exploration and Operations	View Signed Agreement
861	34963	Pacaarch Drojacte	DEMONSTRATION ROCKET FOR AGILE CISLUNAR OPERATIONS (DRACO)	11/4/2021	11/4/2026	Non-Reimbursable	\$52,280	MSFC	SAA8-2134963	Space Technology	View Signed Agreement
862			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
863	34804	Technologies	annex to Space Environmental Effects Testing and Material Characterization of Spacecraft Materials and Instruments		7/21/2022	Reimbursable	\$87,946	MSFC	SAA8-1931239.2	Institutional and Mission Support	View Signed Agreement
864	34742		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

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865	34732		Blue Origin Hot Gas Testing of Materials @ Hot Gas Test Facility	7/7/2021	7/7/2022	Reimbursable	\$375,000	MSFC	SAA8-1725986.31	Institutional and Mission Support	View Signed Agreement
866	34697	United Launch Alliance	PAF and FID Vulcan Rocket Support	7/20/2021	7/20/2022	Reimbursable	\$500,000	MSFC	SAA8-1726580	Institutional and Mission Support	View Signed Agreement
867	34695	Vivace Corporation	Vivace Corporation Demand Services	6/16/2021	6/16/2026	Reimbursable	\$1,200,000	MSFC	SAA8-2134695	Human Exploration and Operations	View Signed Agreement
868	34690) Virgin Orbit, LLC	Virgin Orbit Newton 4 Testing (Phase II)	7/26/2021	7/26/2022	Reimbursable	\$568,706	MSFC	SAA8-1725209.10	Institutional and Mission Support	View Signed Agreement
869	34662		annex to COLLABORATION ON ADVANCED MATERIALS AND TECHNOLOGIES	1/31/2022	1/31/2023	Non-Reimbursable	\$53,965	MSFC	SAA-OA-20- 32236.2	Human Exploration and Operations, Space Technology	View Signed Agreement
870	34614		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		Human Exploration and Operations	View Signed Agreement

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871	3461;	₃ 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
872	34607	7 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
873	34593	3 LOCKHEED MARTIN	Deep Space Mission Modeling and Analysis	8/5/2021	8/5/2023	Reimbursable	\$83,855	MSFC	SAA8-2134592.1	Human Exploration and Operations, Space Technology	View Signed Agreement
874	34592	2 LOCKHEED MARTIN	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
875	34566	Company	ANNEX BETWEEN THE NATIONAL AERONAUTICS AND SPACE ADMINISTRATION GEORGE C. MARSHALL SPACE FLIGHT CENTER AND ABL SPACE SYSTEMS COMPANY FOR PROPULSION DEVELOPMENT	8/23/2021	8/23/2023	Reimbursable	\$48,461	MSFC	SAA8-2134565.1	Space Technology	View Signed Agreement
876	3456	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

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877	3456	1 LOCKHEED MARTIN	Lockheed Martin Test @ HGF	7/14/2021	7/4/2022	Reimbursable	\$362,535	MSFC	SAA8-2134560.1	Institutional and Mission Support	View Signed Agreement
878	3456	0 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
879	3425	2 Innovative Rocket Technologies Inc.	IRocket Propulsion Technology Consultation Agreement	6/7/2021	6/7/2022	Reimbursable	\$100,000	MSFC	SAA8-2134251.1	Space Technology	View Signed Agreement
880	3425	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
881	3423	THE BOEING COMPANY	NASA MSFC Materials Impact Testing for Boeing Research and Technology	4/27/2021	4/27/2022	Reimbursable	\$160,000	MSFC	SAA8-2134237	Institutional and Mission Support	View Signed Agreement
882	3423		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

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883	3419	0 Touchstone Research Lab	Touchstone TPS Testing @HGF	4/21/2021	4/21/2022	Reimbursable	\$30,144	MSFC		Institutional and Mission Support	View Signed Agreement
884	3416		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
885	3414	4 Iowa State University	Microwave Millimeter Wave Studies	9/28/2021	3/28/2023	Non-Reimbursable	\$19,374	MSFC	SAA8-2134143.1	Space Technology	View Signed Agreement
886	3414		Microwave Nondestructive Evaluation (NDE) Studies	9/28/2021	9/28/2026	Non-Reimbursable	\$0	MSFC	SAA8-2134143	Space Technology	View Signed Agreement
887	3410	7 General Atomics	DRACO High Temperature Tie Rod Flow Testing	3/17/2022	2/17/2024	Reimbursable	\$269,061	MSFC	SAA8-2133900.4	Human Exploration and Operations, Space Technology	View Signed Agreement
888	3410	6 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

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889	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
890	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
891			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		Human Exploration and Operations	View Signed Agreement
892	2 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		Human Exploration and Operations	View Signed Agreement
893	33935	THE BOEING COMPANY	Boeing XSP Composite Tank	2/11/2021	2/11/2023	Reimbursable	\$1,002,919	MSFC	SAA8-2133935	Institutional and Mission Support	View Signed Agreement
894	33901	General Atomics	DRACO High Temperature Component Testing	9/28/2021	9/28/2023	Reimbursable	\$101,889	MSFC	SAA8-2133900.1	Human Exploration and Operations, Space Technology	View Signed Agreement

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89	5 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
89	6 33735	Textron Systems Corporation	Textron Systems Marine and Land Systems	12/8/2020	12/8/2022	Reimbursable	\$80,000	MSFC		Human Exploration and Operations	View Signed Agreement
89	7 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
89	3 33696		Nuclear Thermal Propulsion System Development	12/14/2020	12/14/2025	Reimbursable	\$0	MSFC	SAA8-2033696	Space Technology	View Signed Agreement
89	9 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	\$67,643	MSFC		Human Exploration and Operations	View Signed Agreement
90	0 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		Human Exploration and Operations	View Signed Agreement

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901	33668		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
902		Franklin County High	FRANKLIN COUNTY HIGH SCHOOL FOR HIGH SCHOOLS UNITED WITH NASA TO CREATE HARDWARE (HUNCH) PROGRAM	11/5/2020	11/5/2025	Non-Reimbursable	\$67,643	MSFC	SAA8-2033667	Human Exploration and Operations	View Signed Agreement
903	33666	McDonald County High	MCDONALD COUNTY HIGH SCHOOL FOR HIGH SCHOOLS UNITED WITH NASA TO CREATE HARDWARE (HUNCH) PROGRAM	12/1/2020	12/1/2025	Non-Reimbursable	\$67,643	MSFC	SAA8-2033666	Human Exploration and Operations	View Signed Agreement
904	33662	Meade County High	MEADE COUNTY HIGH SCHOOL FOR HIGH SCHOOLS UNITED WITH NASA TO CREATE HARDWARE (HUNCH) PROGRAM	11/5/2020	11/5/2025	Non-Reimbursable	\$67,643	MSFC	SAA8-2033662	Human Exploration and Operations	View Signed Agreement
905	3 30 54		Mt. Pleasant High School - Tennessee / High Schools United with NASA to Create Hardware (HUNCH) Program.	12/7/2020	12/7/2025	Non-Reimbursable	\$67,643	MSFC	SAA8-2033654	Human Exploration and Operations	View Signed Agreement
906	33653	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	\$67,643	MSFC	SAA8-2033653	Human Exploration and Operations	View Signed Agreement

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907	3365	2 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	\$67,643	MSFC	SAA8-2033652	Human Exploration and Operations	View Signed Agreement
908	3365	1 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	\$67,643	MSFC	SAA8-2033651	Human Exploration and Operations	View Signed Agreement
909	3364	7 Earnest Pruett Center of Technology	Earnest Pruett Center of Technology/High Schools United with NASA to Create Hardware (HUNCH) Program	3/24/2021	3/24/2026	Non-Reimbursable	\$67,643	MSFC	SAA8-2033647	Human Exploration and Operations	View Signed Agreement
910	3364	6 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	\$67,643	MSFC	SAA8-2033646	Human Exploration and Operations	View Signed Agreement
911	3364	5 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	\$67,643	MSFC	SAA8-2033645	Human Exploration and Operations	View Signed Agreement
912	2 3362	7 HUNTSVILLE CITY SCHOOLS	Huntsville City School for High Schools United with NASA to Create Hardware (HUNCH) Program - Jemison Annex		6/16/2026	Non-Reimbursable	\$67,643	MSFC	SAA8-2031925.1	Human Exploration and Operations	View Signed Agreement

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913	3 3357		Fireball Network Station at Tellus Science Museum	12/7/2020	12/7/2025	Non-Reimbursable	\$1,568	MSFC	SAA8-2033577	Science	View Signed Agreement
914	3349	¹ Venus Aerospace Corporation	Propulsion consultation to support design of novel thrust chamber concepts	3/1/2021	3/1/2023	Reimbursable	\$6,918	MSFC	SAA8-2033490.1	Human Exploration and Operations	View Signed Agreement
915	5 3349	0 Venus Aerospace Corporation	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
916	3344	7 AST&Science, LLC	Spacecraft Component Testing	11/3/2020	11/3/2025	Reimbursable	\$0	MSFC	SAA8-2033447	Space Technology	View Signed Agreement
917	3344		Thermophysical Properties Measurements of Fluoride Glass Materials	11/20/2020	9/30/2022	Reimbursable	\$69,715	MSFC	SAA8-2033444.1	Science	View Signed Agreement
918	3 3344	4 G-Space, Inc.	THERMOPHYSICAL PROPERTIES MEASUREMENTS USING ELECTROSTATIC LEVITATION	11/20/2020	11/20/2025	Reimbursable	\$0	MSFC	SAA8-2033444	Science	View Signed Agreement

ROW F NO. N	PAM ID IUMBER	PARTNER NAME	TITLE/PURPOSE	SIGNATURE DATE	EXPIRATION DATE	TYPE OF AGREEMENT	TOTAL ESTIMATED DOLLAR VALUE OF NASA RESOURCES		CENTER TRACKING NUMBER (IF ANY)	EXPECTED AGENCY BENEFIT(S)	LINK TO SIGNED AGREEMENT
919	33295	Microsoft Corporation	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
920	33294	Microsoft Corporation	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
921	33257	BLUE ORIGIN, LLC	Blue Origin BE-7 10K OX TPA	11/24/2020	11/24/2022	Reimbursable	\$2,723,390	MSFC	SAA8-1725986.29	Space Technology	View Signed Agreement
922	33219	BLUE ORIGIN, LLC	Blue Origin BE-7 10K LH2 TPA	11/24/2020	11/24/2022	Reimbursable	\$2,442,584	MSFC	SAA8-1725986.28	Human Exploration and Operations	View Signed Agreement
923	33206	BLUE ORIGIN, LLC	Annex 27 to Exchange of Technical Expertise for commercial space transportation	10/22/2020	8/30/2022	Reimbursable	\$400,000	MSFC	SAA8-1725986.27	Space Technology, Institutional and Mission Support	View Signed Agreement
924	33021	RELATIVITY SPACE, INC.	Design and manufacturing review for rocket engine components	10/14/2020	10/14/2022	Reimbursable	\$45,056	MSFC	SAA8-2033020.1	Space Technology	View Signed Agreement

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925	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
926	32805	UNIVERSITY OF ALABAMA	SAA8-2132804 Annex 1 In-situ resource utilization - lunar	2/1/2021	2/1/2023	Non-Reimbursable	\$43,752	MSFC	SAA8-2132804.1	Human Exploration and Operations	View Signed Agreement
927	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
928	3 32789	X-Bow Launch Systems	ANALYSIS FOR ADDITIVELY MANUFACTURED SOLID ROCKET MOTOR PROPELLANT	1/19/2021	4/17/2022	Non-Reimbursable	\$36,646	MSFC	SAA8-2032788.1	Space Technology	View Signed Agreement
929	32788	A-Bow Launch Systems	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
930	32718		The Centennial Challenges Lunar Nutrition Challenge	8/28/2020	8/28/2022	Non-Reimbursable	\$931,482	MSFC	SAA8-2032718	Human Exploration and Operations	View Signed Agreement

ROW NO.	/ PAM II NUMB		TITLE/PURPOSE	SIGNATURE DATE	EXPIRATION DATE	TYPE OF AGREEMENT	TOTAL ESTIMATED DOLLAR VALUE OF NASA RESOURCES	CENTER	CENTER TRACKING NUMBER (IF ANY)	EXPECTED AGENCY BENEFIT(S)	LINK TO SIGNED AGREEMENT
93	1 32	639 Lockheed Martin Space	Lockheed Martin Test @ HGF	6/24/2020	6/24/2022	Reimbursable	\$376,140	MSFC	SAA8-2032638.1	Institutional and Mission Support	View Signed Agreement
93	2 32	638 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
93	3 32	636 MILLENNIUM SPACE SYSTEMS, INC	Evaluate Orbital Trajectory of Flight Experiment	11/19/2020	11/19/2022	Non-Reimbursable	\$31,414	MSFC	SAA8-2032636	Space Technology	View Signed Agreement
93	4 32	ARCTIC SLOPE 552 TECHNICAL SERVICES, INC.	Demonstrating the use of artificial intelligence computer software for space flight systems	9/28/2020	9/28/2022	Non-Reimbursable	\$307,089	MSFC	SAA8-2032551.1	Human Exploration and Operations	View Signed Agreement
93	5 32	ARCTIC SLOPE 551 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
93	6 32	353 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

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937	3218	2 BLUE ORIGIN, LLC	Blue Origin TCA v2.0	7/7/2020	7/7/2022	Reimbursable	\$3,231,530	MSFC	SAA8-1725986.25	Human Exploration and Operations	View Signed Agreement
938	3215		Rugged Space Rated High Definition – Serial Data Interface (HD-SDI) Camera	5/11/2020	5/11/2023	Non-Reimbursable	\$239,458	MSFC		Human Exploration and Operations	View Signed Agreement
939	3209	5 Blue Origin Florida, LLC	Production Implementation	6/11/2020	6/11/2022	Reimbursable	\$300,000	MSFC	SAA8-2032094.1	Human Exploration and Operations	View Signed Agreement
940	3209	4 Blue Origin Florida, LLC	Production Implementation	6/11/2020	6/11/2025	Reimbursable	\$0	MSFC		Human Exploration and Operations	View Signed Agreement
941	3208	4 ATK Launch Systems Inc.	ATK Hot Gas Testing	6/4/2020	6/4/2022	Reimbursable	\$254,564	MSFC	SAA8-1931535.2	Human Exploration and Operations	View Signed Agreement
942	2 3206	9 Corporation	Annex to FASTRAC Powerpack Testing and Aerospike Nozzle Analysis in Support of USAF ARISE Program	3/24/2020	2/5/2023	Reimbursable	\$352,878	MSFC	SAA8-2031673.2	Aeronautics	View Signed Agreement

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943			Huntsville City School for High Schools United with NASA to Create Hardware (HUNCH) Program - Grissom Annex		6/16/2026	Non-Reimbursable	\$72,338	MSFC	SAA8-2031925.2	Human Exploration and Operations	View Signed Agreement
944		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
945	31862	ASTROBOTIC TECHNOLOGY, INC	Provide NASA expertise in lunar cargo transportation and landing technologies	6/4/2020	6/4/2022	Reimbursable	\$775,467	MSFC	SAA8-1930516.2	Human Exploration and Operations, Space Technology	View Signed Agreement
946	31673		FASTRAC Powerpack Testing and Aerospike Nozzle Analysis in Support of USAF ARISE Program	2/5/2020	2/5/2023	Reimbursable	\$0	MSFC	SAA8-2031673	Aeronautics	View Signed Agreement
947	31654	University of Louisiana at Lafayette	SAA8-2031653.1 Thermophysical Properties Measurements of Lightweight Metal Alloys	10/19/2020	4/30/2022	Reimbursable	\$26,023	MSFC	SAA8-2031653.1	Human Exploration and Operations	View Signed Agreement
948			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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949	31649		Extreme Environment Testing and Evaluation of Material Properties	12/11/2019	12/11/2022	Reimbursable	\$5,000,000	MSFC	SAA8-1931648.1	Aeronautics	View Signed Agreement
950	31648		Extreme Environment Testing and Evaluation of Material Properties	12/11/2019	12/11/2024	Reimbursable	\$0	MSFC	SAA8-1931648	Aeronautics	View Signed Agreement
951		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
952	31535		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
953	31492		Valve testing for development of the Blue Origin engines	7/23/2020	7/23/2022	Reimbursable	\$467,057	MSFC	SAA8-1725986.19	Human Exploration and Operations	View Signed Agreement
954	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

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955		Florida Institute of Technology	Vision-Based Navigation for Formation Flight onboard ISS	1/16/2020	1/16/2023	Non-Reimbursable	\$170,172	MSFC	SAA8-1931336	Human Exploration and Operations, Space Technology	View Signed Agreement
956		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
957	31239	Technologies	Space Environmental Effects Testing and Material Characterization of Spacecraft Materials and Instruments	1/27/2020	1/27/2023	Reimbursable	\$0	MSFC	SAA9 1021220	Human Exploration and Operations, Science, Space Technology	View Signed Agreement
958	31171		annex to Exchange of Technical Expertise for commercial space transportation	9/27/2019	8/30/2022	Reimbursable	\$487,891	MSFC	SAA8-1725986.17	Human Exploration and Operations, Space Technology	View Signed Agreement
959	31129	SPACE SYSTEMS	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
960		U.S SPACE AND	USSRC OPERATE AS MARSHALL SPACE FLIGHT CENTER OFFICIAL VISITOR CENTER	1/26/2021	1/26/2026	Non-Reimbursable	\$117,037	MSFC	SVV8_2031007 1	Education and/or Public Engagement	View Signed Agreement

ROW NO.	PAM ID NUMBEF	PARTNER NAME	TITLE/PURPOSE	SIGNATURE DATE	EXPIRATION DATE	TYPE OF AGREEMENT	TOTAL ESTIMATED DOLLAR VALUE OF NASA RESOURCES	CENTER	CENTER TRACKING NUMBER (IF ANY)	EXPECTED AGENCY BENEFIT(S)	LINK TO SIGNED AGREEMENT
96′	1 3109	07 NOCKET CENTER	ALABAMA SPACE SCIENCE EXHIBIT COMMISSION	1/26/2021	1/26/2026	Non-Reimbursable	\$0	MSFC	SAA8-2031097	Education and/or Public Engagement	View Signed Agreement
962	2 3089	98 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
96	3 3081	4 FIRST RF Corporation	High Speed Particle Material Impact Testing	9/25/2019	9/25/2022	Reimbursable	\$0	MSFC	SAA8-1930814	Institutional and Mission Support	View Signed Agreement
964	4 3051		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
965	5 3023	33 BLUE ORIGIN, LLC	Blue Origin On Demand Services	7/9/2019	12/31/2023	Reimbursable	\$2,850,000	MSFC	SAA8-1830232.1		View Signed Agreement
966	6 3023		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

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967	30143	Verizon Wireless	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
968	30136	Technologies	Propulsion Engineering Analysis, Consultation, Feasibility Studies and Space Vehicle Development Activities		9/18/2024	Reimbursable	\$0	MSFC	SAA8-1930136	Human Exploration and Operations, Space Technology	View Signed Agreement
969	9 30098		Placement of Telecommunications antenna on building 4476	12/18/2019	12/18/2024	Reimbursable	\$119,927	MSFC	SAA8-1930098	Institutional and Mission Support	View Signed Agreement
970) 30011	Google LLC	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
97*	29999	RUAG Space USA, Inc	RUAG Centaur V Structural Tests	9/10/2019	10/31/2022	Reimbursable	\$18,396,484	MSFC	SAA8-1829459.2	Space Technology	View Signed Agreement
972	2 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

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973	.,000P	Massachusetts Institute	SPACE EXPLORATION TECHNOLOGY DEVELOPMENT IN MOTION MAGNIFICATION TECHNIQUES	5/28/2019	5/27/2022	Non-Reimbursable	\$67,372	MSFC		Human Exploration and Operations	View Signed Agreement
974	29535	United Launch Alliance	ULA Integrated Fluid System Test (IFST)	6/6/2019	10/31/2022	Reimbursable	\$14,065,561	MSFC	SAA8-1726580.5	Institutional and Mission Support	View Signed Agreement
975	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
976	28565		annex to Exchange of Technical Expertise for commercial space transportation	10/29/2018	8/30/2022	Reimbursable	\$450,000	MSFC	SAA8-1725986.10	Human Exploration and Operations, Space Technology	View Signed Agreement
977	28500	OBERLIN COLLEGE	Fireball Network Station at Oberlin College	8/7/2018	8/7/2023	Non-Reimbursable	\$2,268	MSFC	SAA8-1828500	Science	View Signed Agreement
978	28435	Spirit Aero Systems	Rivet replacement with friction stir welds	4/25/2019	4/25/2022	Reimbursable	\$21,585	MSFC	SAA8-1828434.1	Human Exploration and Operations	View Signed Agreement

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979	28434	Shirit Mara Svetame	Collaboration in Aeronautical Vehicle Manufacturing	4/25/2019	4/25/2024	Reimbursable	\$0	MSFC		Human Exploration and Operations	View Signed Agreement
980		St. Bernard Sheriffs Department	St Bernard Sheriffs Department	7/12/2018	7/12/2023	Non-Reimbursable	\$2,932	MSFC		Human Exploration and Operations	View Signed Agreement
981		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
982	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
983	27851	University of North Carolina at Greensboro	ENGINEERING COLLABORATION	11/13/2019	11/13/2022	Reimbursable	\$0	MSFC	SAA8-1927851	Human Exploration and Operations, Education and/or Public Engagement	View Signed Agreement
984	27801	Hands-On Science Center	Fireball Network Station	5/31/2018	5/31/2023	Non-Reimbursable	\$1,701	MSFC	SAA8-1827801	Science	View Signed Agreement

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985	5 2779	9 HIRAM COLLEGE	Fireball Network Station at Hiram College	5/25/2018	5/25/2023	Non-Reimbursable	\$1,701	MSFC	SAA8-1827799	Science	View Signed Agreement
986	5 2779	³ AEROJET ROCKETDYNE, INC	Engine System Material in Collaboration with the AR-22 Project	5/23/2018	5/23/2023	Non-Reimbursable	\$75,162	MSFC		Human Exploration and Operations	View Signed Agreement
987	2770	2 LOCKHEED MARTIN	WIND TUNNEL TESTING	5/22/2018	5/22/2023	Reimbursable	\$165,737	MSFC	SAA8-1827702	Space Technology	View Signed Agreement
988	3 2754	1 SIERRA NEVADA CORP	Design and manufacturing review for rocket engine components	6/11/2020	6/11/2022	Reimbursable	\$55,514	MSFC	SAA8-2027540.1	Human Exploration and Operations, Science	View Signed Agreement
989	2754	0 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
990	2747	Northeast Arkansas 8 Career and Technical Center	Northeast Arkansas Career and Technical Center / High Schools United with NASA to Create Hardware (HUNCH) Program.	2/27/2018	2/27/2023	Non-Reimbursable	\$70,471	MSFC		Human Exploration and Operations	View Signed Agreement

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991	27244	United Launch Alliance	ULA Vulcan Upper Stage Test	2/21/2018	10/31/2022	Reimbursable	\$25,661,522 MSFC	SAA8-1726580.3	Aeronautics	View Signed Agreement
992	2 27194	Cimarron Composites	Cimarron Composites for Developing Advanced Technology For Engine Components	3/14/2018	3/14/2023	Reimbursable	\$0 MSFC	SAA8-1827194	Space Technology	View Signed Agreement
993	3 26940	LOCKHEED MARTIN	Lockheed Martin Corporation Commercial	2/1/2018	9/30/2022	Reimbursable	\$4,667,883 MSFC	SAA8-1826940	Human Exploration and Operations	View Signed Agreement
994	26915	UNITED LAUNCH ALLIANCE	Aeroscience analysis of Vulcan vehicle operations	1/4/2018	1/4/2023	Reimbursable	\$0 MSFC	SAA8-1726915	Human Exploration and Operations	View Signed Agreement
995	5 26805	DECATUR CITY SCHOOLS	Wide-field Meteor Network Station at Ben Davis Magnet Elementary School	1/19/2018	1/19/2023	Non-Reimbursable	\$11,295 MSFC	SAA8-1726805	Science	View Signed Agreement
996	26656	AUBURN UNIVERSITY	SPACE EXPLORATION TECHNOLOGY DEVELOPMENT	11/8/2017	11/8/2022	Non-Reimbursable	\$0 MSFC		Human Exploration and Operations, Space Technology	View Signed Agreement

ROW P NO. N	PAM ID IUMBER	PARTNER NAME	TITLE/PURPOSE	SIGNATURE DATE	EXPIRATION DATE	TYPE OF AGREEMENT	TOTAL ESTIMATED DOLLAR VALUE OF NASA RESOURCES	CENTER	CENTER TRACKING NUMBER (IF ANY)	EXPECTED AGENCY BENEFIT(S)	LINK TO SIGNED AGREEMENT
997	26604	School District	Annex 1 to High Schools United with NASA to Create Hardware (HUNCH) Collaboration - Garland Independent School District	11/27/2017	11/27/2022	Non-Reimbursable	\$64,786	MSFC	SAA8-1726603.1	Human Exploration and Operations	View Signed Agreement
998	26603		High Schools United with NASA to Create Hardware (HUNCH) Collaboration - Garland Independent School District	11/27/2017	11/27/2022	Non-Reimbursable	\$0	MSFC	SAA8-1726603	Human Exploration and Operations	View Signed Agreement
999	26580	United Launch Alliance	Launch Vehicle Manufacturing and Test Support	10/31/2017	10/31/2022	Reimbursable	\$0	MSFC	SAA8-1726580	Human Exploration and Operations, Space Technology	View Signed Agreement
1000	26149	Morgan County Schools	annex to High Schools United with NASA to Create Hardware (HUNCH) Collaboration - Morgan County Schools	8/9/2017	8/9/2022	Non-Reimbursable	\$61,065	MSFC	SAA8-1726148.1	Human Exploration and Operations	View Signed Agreement
1001	26148	Morgan County Schools	High Schools United with NASA to Create Hardware (HUNCH) Collaboration - Morgan County Schools	8/9/2017	8/9/2022	Non-Reimbursable	\$0	MSFC	SAA8-1726148	Human Exploration and Operations	View Signed Agreement
1002	26082		Cryogenically - Fueled Upper Stage Technologies	3/2/2018	3/2/2023	Reimbursable	\$0	MSFC	SAA8-1726082	Human Exploration and Operations	View Signed Agreement

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1003	25986		Exchange of Technical Expertise for commercial space transportation	8/30/2017	8/30/2022	Reimbursable	\$0	MSFC	SAA8-1725986	Human Exploration and Operations, Space Technology	View Signed Agreement
1004		AEROJET ROCKETDYNE, INC	Space Systems Technology Development and Demonstration	9/29/2017	9/29/2022	Reimbursable	\$0	MSFC		Human Exploration and Operations	View Signed Agreement
1005	25325	United Technologies Corp	NASA MSFC requests Loan of Flight Qual Unit - CO2 Compressor and Controller	3/1/2018	3/1/2023	Non-Reimbursable	\$125	MSFC		Human Exploration and Operations	View Signed Agreement
1006	36269		Annex Four to Provide Propulsion Test Engineering Assessments	3/4/2022	3/4/2023	Reimbursable	\$65,000	SSC	SSAA-1053-0195	Human Exploration and Operations	View Signed Agreement
1007		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
1008	35664		Annex Two Ursa Major Propulsion Engineering and Test Support	12/2/2021	12/2/2023	Reimbursable	\$843,000	SSC	SSAA-1053-0191	Human Exploration and Operations	View Signed Agreement

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1009	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
1010		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
1011	34280		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
1012	34212	Firehawk Aerospace, Inc.	Reimbursable Umbrella Agreement Firehawk Aerospace, Inc. for Rocket Propulsion Testing	3/25/2021	3/25/2023	Reimbursable	\$0	SSC	SSAA-1053-0185	Human Exploration and Operations	View Signed Agreement
1013	33910	Launcher Space	Annex Two for Propulsion Test Support to Launcher Space	1/27/2021	1/27/2023	Reimbursable	\$274,995	SSC	SSAA-1053-0181	Human Exploration and Operations	View Signed Agreement
1014	33761	Virgin Orbit	Annex Two to Reimbursable Umbrella Space Act Agreement between NASA Ames Research Center and Virgin Orbit, LLC for Propulsion Test Support at SSC	11/23/2020	11/23/2022	Reimbursable	\$5,552,755	SSC	SSAA-1053-0180	Human Exploration and Operations	View Signed Agreement

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1015	33619	BLUE ORIGIN, LLC	Annex Six to Blue Origin Umbrella, LOX Duct Flow Testing	12/8/2020	12/8/2022	Reimbursable	\$1,749,000	SSC	SSAA-1053-0179	Human Exploration and Operations	View Signed Agreement
1016	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
1017	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
1018	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
1019	32180		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
1020	32137	Launcher Space	Annex One Propulsion Test Support to Launcher Space	3/31/2020	3/31/2024	Reimbursable	\$299,518	SSC	SSAA-1053-0175	Human Exploration and Operations	View Signed Agreement

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1021	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
1022	31148	MISSISSIPPI STATE UNIVERSITY	Annex One for Use of Restricted Airspace at John C. Stennis Space Center	1/14/2020	11/20/2022	Reimbursable	\$9,771	SSC	SSAA-1051-0082	Aeronautics	View Signed Agreement
1023	31147	MISSISSIPPI STATE UNIVERSITY	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
1024	30466	RELATIVITY SPACE,	Host Tenant Agreement Between National Aeronautics and Space Administration John C. Stennis Space Center and Relativity Space, Inc.	5/28/2019	5/28/2028	Reimbursable	\$0	SSC	SSAA-1053-0165	Institutional and Mission Support	View Signed Agreement
1025	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
1026		State of Mississippi Technology Transfer Office	Use Permit Between National Aeronautics and Space Administration and State of Mississippi Technology Transfer Office	6/12/2018	4/19/2023	Reimbursable	\$0	SSC	SSAA-1051-0079	Institutional and Mission Support	View Signed Agreement

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1027	28380	STATE OF MISSISSIPPI Technology Transfer Office	Host Tenant Agreement Between the National Aeronautics and Space Administration John C. Stennis Space Center and State of Mississippi Technology Transfer Office	C/4 D/204 D	4/19/2023	Reimbursable	\$0	SSC	SSAA-1051-0078	Institutional and Mission Support	View Signed Agreement
1028	28334	BLUE ORIGIN, LLC	Blue Origin Umbrella Rocket Propulsion Testing and Related Services	6/29/2018	6/29/2023	Reimbursable	\$0	SSC	SSAA-1053-0154	Human Exploration and Operations	View Signed Agreement
1029	27897	STRATOLAUNCH SYSTEMS CORP	Annex Two to Reimbursable Space Act Umbrella Agreement Between The National Aeronautics and Space Administration John C. Stennis Space Center and Stratolaunch Systems Corporation for Propulsion Testing Support	5/11/2018	5/11/2022	Reimbursable	\$6,950,000	SSC	SSAA-1053-0153	Human Exploration and Operations	View Signed Agreement
1030	27516	STATE OF MISSISSIPPI	Use of NASA facilities and services in support of the Mississippi Technology Transfer Office	4/9/2018	4/19/2023	Reimbursable	\$3,000,000	SSC	SSAA-1051-0077	Technology Transfer	View Signed Agreement
1031	27333	THE BOEING COMPANY	Reimbursable Space Act Umbrella Agreement Between the National Aeronautics and Space Administration, John C. Stennis Space Center and the Boeing Company for engineering, propulsion test and related services		3/21/2023	Reimbursable	\$0	SSC	SSAA-1053-0149	Human Exploration and Operations	View Signed Agreement
1032	26430	Hancock County Mississippi	For Hancock County EOC Continuity Site	3/19/2018	3/19/2023	Non-Reimbursable	\$0	SSC	SSAA-1051-0068	Institutional and Mission Support	View Signed Agreement

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1033	26275	STRATOLAUNCH SYSTEMS CORP	Reimbursable Space Act Umbrella Agreement Between The National Aeronautics and Space Administration John C. Stennis Space Center and Stratolaunch Systems Corporation for Propulsion Testing Support	9/13/2017	9/13/2022	Reimbursable	\$0	SSC	SSAA-1053-0139	Human Exploration and Operations	View Signed Agreement
1034	25760	The Board of Trustees of Mississippi Institutions of Higher Learning	The Center of Higher Learning and Related University Activities	11/29/2017	11/29/2022	Reimbursable	\$3,648,000	SSC	SSAA-1051-0066	Education and/or Public Engagement	View Signed Agreement
1035	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
1036	3558′	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
1037	35393	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
1038	35336	6 ROCKET LAB USA	Annex 2 to Rocket Lab Autonomous Flight Termination System Support	10/5/2021	10/4/2023	Reimbursable	\$20,000	WFF	GSFC-21-32608	Science, Institutional and Mission Support	View Signed Agreement

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1039	35274	4 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
1040	34693	3 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
1041	34250	Prince George`s 6 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
1042	3415	7 Eastern Shore Community College	Collaboration to Facilitate Joint Research, Technology Development, and Educational Initiatives	10/26/2021	10/25/2026	Non-Reimbursable	\$0	WFF	GSFC-21-34158 NRSAA Umbrella	Education and/or Public Engagement	View Signed Agreement
1043	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
1044	34092	THE REGENTS OF 2 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

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1045		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
1046	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
1047	33594		ABL Space Systems Aerospike Engine Engineering and Operational Support	11/9/2021	11/8/2023	Reimbursable	\$25,854	WFF	GSFC-21-33320	Science, Space Technology, Institutional and Mission Support	View Signed Agreement
1048	33320		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
1049	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
1050	32609		GSFC-21-32608 Rocket Lab Umbrella Agreement Annex 1 - Range and Safety Support to Rocket Lab Autonomous Flight Termination Unit (RLAFTU)	7/8/2021	7/7/2023	Reimbursable	\$150,445	WFF	GSFC-21-32608	Science, Space Technology	View Signed Agreement

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1051	32608		Rocket Lab Autonomous Flight Termination System Support	7/8/2021	7/7/2026	Reimbursable	\$0	WFF	GSFC-20-32608	Science	View Signed Agreement
1052		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
1053	32248		Range Certification Support of NASA Autonomous Flight Terminations Systems	4/29/2020	4/29/2022	Non-Reimbursable	\$1,700,000	WFF	GSFC-20-32248	Science	View Signed Agreement
1054			Operations and Activities for the Unmanned Aerial System Runway	1/9/2018	1/9/2023	Reimbursable	\$778,250	WFF	GSFC-17-25541	Aeronautics	View Signed Agreement
1055		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
1056		WHA INTERNATIONAL, INC	WSTF Testing, 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

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1057	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
1058	35608	Space Exploration Technologies Corp.	Particle Impact Testing	12/30/2021	12/30/2022	Reimbursable	\$76,382		SAA-RA-21-35607- 01	Human Exploration and Operations	View Signed Agreement
1059	35607	, Space Exploration Technologies Corp.	WSTF Testing, 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
1060	34863	Northrop Grumman	Hypervelocity Testing in Support of Northrop Grumman (NG) Space Systems	8/30/2021	8/30/2022	Reimbursable	\$30,558	WSTF	SAA-RA-21-34863	Human Exploration and Operations	View Signed Agreement
1061	34796	S 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
1062	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

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1063	34327	ZIN TECHNOLOGIES, INC	WSTF Testing, 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
1064		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
1065	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
1066	34306	ILC Dover LP	WSTF Testing, 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
1067	34081	THE BOEING COMPANY	Annex 3 to Fabricate WSTF Designed Throat Plugs for R40B Thrusters	10/26/2021	9/13/2023	Reimbursable	\$93,299	WSTF	SAA-RA-18-28204- 03	Institutional and Mission Support	View Signed Agreement
1068	33315		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

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1069	3267	6 THE BOEING COMPANY	STP3 R40b Hot Fire Testing	4/29/2021	12/31/2022	Reimbursable	\$3,779,359	WSTF	SAA-RA-20-32676	Human Exploration and Operations	View Signed Agreement
1070	3227	8 THE BOEING COMPANY	Perform R40b thruster testing, provide test data results and ship thrusters.	7/15/2020	9/13/2023	Reimbursable	\$611,034	WSTF	SAA-RA-18-28204- 02	Human Exploration and Operations	View Signed Agreement
1071	3158	1 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
1072	3152	0 Johnson and Johnson	Testing of N2O4 per MIL-PRF-26539G	2/26/2020	2/26/2023	Reimbursable	\$170,725	WSTF		Human Exploration and Operations	View Signed Agreement
1073	3136	4 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		SAA-RA-20-31363- 01	Human Exploration and Operations	View Signed Agreement
1074	3136	³ Infinite Composites Technologies	WSTF Testing, 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

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1075	31188	3 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
1076	31187		WSTF Testing, 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
1077	3064		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
1078	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
1079	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
1080	28204	THE BOEING COMPANY	Perform R40b thruster testing and provide test data results.	9/13/2018	9/13/2023	Reimbursable	\$0	WSTF	SAA-RA-18-28204	Institutional and Mission Support	View Signed Agreement

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1081	22154		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