

**NATIONAL AERONAUTICS AND SPACE ADMINISTRATION FY 2021 SPENDING PLAN FOR
 APPROPRIATIONS PURSUANT TO P.L. 116-260
 March 2021
 (Budget Authority, \$ in millions)**

	FY 2021 NASA Spending Plan
NASA	23,271.3
SCIENCE	7,300.8
Earth Science	2,000.0
<u>Earth Science Research</u>	479.7
Earth Science Research & Analysis	344.4
Carbon Monitoring (non-add).....	10.0
Computing & Management	135.3
<u>Earth Systematic Missions</u>	780.5
NASA/ISRO SAR (NISAR).....	75.5
Surface Water and Ocean Topography.....	63.9
Sentinel-6.....	8.0
Landsat 9.....	86.5
Other Missions and Data Analysis.....	546.7
Pre-Aerosol, Clouds, and Ocean Ecosystem (PACE) (non-add).....	145.1
Climate Absolute Radiance Refractivity Observatory Pathfinder (non-add).....	24.5
Decadal Survey (non-add).....	55.0
<u>Earth System Science Pathfinder</u>	343.9
Venture Class Missions.....	263.6
GeoCarb (non-add).....	45.4
GLMR (non-add).....	37.7
Other Missions and Data Analysis	80.2

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<u>Earth Science Data Systems</u>	<u>250.8</u>
<u>Earth Science Technology</u>	<u>82.2</u>
<u>Applied Sciences</u>	<u>62.9</u>
Planetary Science	2699.8
<u>Planetary Science Research</u>	<u>304.1</u>
Planetary Science Research & Analysis.....	223.2
Other Missions & Data Analysis.....	80.9
<u>Planetary Defense</u>	<u>151.0</u>
DART.....	66.4
Planetary Defense OM&DA.....	84.6
<u>Lunar Discovery and Exploration</u>	<u>443.5</u>
Other Missions & Data Analysis.....	443.5
<i>Lunar Reconnaissance Orbiter (LRO) (non-add).....</i>	<i>22.2</i>
<i>Commercial Lunar Payload Service (CLPS) (non-add).....</i>	<i>233.4</i>
<i>Lunar Future Initiative (non-add).....</i>	<i>68.7</i>
<u>Discovery</u>	<u>451.3</u>
Lucy.....	143.6
Psyche.....	169.6
Other Missions & Data Analysis.....	138.1
<u>New Frontiers</u>	<u>160.0</u>

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Dragonfly	86.0
Other Missions & Data Analysis.....	74.0
<u>Mars Exploration</u>	<u>334.8</u>
Mars Rover 2020.....	150.0
Other Missions & Data Analysis.....	184.8
<i>Mars Odyssey 2001 (non-add)</i>	11.0
<i>Mars Sample Return (MSR) (non-add)</i>	17.2
<u>Mars Sample Return</u>	<u>246.3</u>
<u>Outer Planets</u>	<u>462.5</u>
Europa Clipper.....	434.8
Other Missions & Data Analysis.....	27.7
<i>Icy Satellites Surface Technology (non-add)</i>	14.2
<u>Radioisotope Power</u>	<u>146.3</u>
Astrophysics	1356.2
<u>Astrophysics Research</u>	<u>249.3</u>
Astrophysics Research & Analysis.....	91.1
Balloon Project.....	44.8
Science Activation.....	45.6
Other Missions & Data Analysis.....	67.8
<u>Cosmic Origins</u>	<u>203.8</u>

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Hubble Space Telescope.....	93.3
Stratospheric Observatory for Infrared Astronomy.....	85.2
Other Missions & Data Analysis.....	25.3
<i>Search for Life Tech Development (non-add)</i>	
<u>Physics of the Cosmos: Other Missions & Data Analysis</u>	<u>146.4</u>
<u>Exoplanet Exploration</u>	<u>552.4</u>
<i>Roman-WFIRST (non-add).....</i>	505.2
<i>Search for Life Tech Development (non-add).....</i>	10.0
<u>Astrophysics Explorer</u>	<u>204.4</u>
James Webb Space Telescope	414.7
Heliophysics	751.0
<u>Heliophysics Research</u>	<u>280.8</u>
Heliophysics Research & Analysis.....	77.0
Sounding Rockets.....	73.6
Research Range.....	32.0
Other Missions & Data Analysis.....	98.2
<u>Living With a Star</u>	<u>148.2</u>
Solar Orbiter Collaboration.....	8.1
Other Missions & Data Analysis.....	140.1
<i>Space Weather Science Applications (non-add).....</i>	25.0
<i>Geospace Dynamics Constellation (non-add).....</i>	15.0

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<u>Solar Terrestrial Probes</u>	148.6
<i>Magnetospheric MultiScale (non-add)</i>	26.0
<i>DYNAMIC (non-add)</i>	10.0
<u>Heliophysics Explorer</u>	173.4
Other Missions & Data Analysis.....	173.4
Biological and Physical Sciences	79.1
AERONAUTICS	828.7
Aeronautics	828.7
<u>Airspace Operations and Safety Program</u>	92.0
<u>Advanced Air Vehicles Program</u>	211.4
<i>Hypersonics Technology Project (non-add)</i>	40.0
<i>Hypersonics Advanced Materials (non-add)</i>	8.5
<i>High-Rate Composite A/C Manufacturing (HiCAM)</i>	11.8
<u>Integrated Aviation Systems Program</u>	278.7
<u>Transformative Aero Concepts Program</u>	129.7
<i>Advanced Materials Research</i>	10.0
<u>Aerosciences Evaluation and Test Capabilities (AETC)</u>	116.9
SPACE TECHNOLOGY	1,100.0
Exploration Technology	1,100.0
<u>Early Stage Innovation and Partnerships</u>	117.5
Agency Technology and Innovation.....	8.4

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Early Stage Innovation	80.7
<i>Innovative Nanomaterials (non-add)</i>	5.0
Partnerships and Technology Transfers	28.4
<i>Regional Economic Development (non-add)</i>	6.8
<u>Technology Maturation</u>	227.1
<i>Additive Manufacturing (non-add)</i>	35.0
<i>On Surface Manufacturing (non-add)</i>	6.8
<u>Technology Demonstration</u>	<u>528.4</u>
Laser Communication Relay Demonstration.....	15.1
RESTORE/Space Infrastructure Dexterous Robot.....	227.0
Solar Electric Propulsion (SEP).....	26.2
Small Spacecraft, Flight Opportunities & Other Tech Demonstration	260.1
<i>OSAM-2 (non-add)</i>	17.7
<i>Flight Opportunities (non-add)</i>	27.0
<i>STEM and Early Career Research (non-add)</i>	7.0
<i>Nuclear Propulsion (non-add)</i>	110.0
<i>Flight Demonstration System (non-add)</i>	80.0
<u>SBIR & STTR</u>	<u>227.0</u>
EXPLORATION	6,517.4
Human Exploration Capabilities	4,544.6
<u>Orion Multi-Purpose Crew Vehicle: Crew Vehicle Dev.</u>	<u>1,403.7</u>

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<u>Space Launch System</u>	2,560.9
SLS Program Integration	66.6
Launch Vehicle Development.....	2,494.3
<i>Block 1B (non-add) (including EUS) (non-add)</i>	400.0
<u>Exploration Ground Systems</u>	580.0
Exploration Ground System Development.....	569.2
<i>Second Mobile Launch Platform (MLP-2) non-add</i>	74.0
EGS Program Integration and Support.....	10.8
<u>Exploration Research & Development</u>	1,972.8
<u>Advanced Exploration Systems</u>	176.2
<u>Gateway</u>	698.8
<u>Adv Cislunar and Surface Capabilities</u>	54.5
<u>Human Research Program</u>	115.0
<i>Advanced Technologies to Support Air Revitalization Initiative</i>	-
<u>Human Landing System</u>	928.3
SPACE OPERATIONS	3,988.2
<u>International Space Station</u>	1,321.6
<u>International Space Station Program</u>	1,321.6
ISS Systems Operations & Maintenance.....	1,013.8
ISS Research.....	307.8
Biological and Physical Sciences.....	-

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Space Transportation	1,872.9
<u>Crew and Cargo Program</u>	1,573.2
<u>Commercial Crew Program</u>	299.7
Space & Flight Support	776.6
21st Century Space Launch Complex	10.0
<u>Space Communications & Navigation</u>	506.0
Space Communications Networks.....	398.3
Space Communications Support.....	107.7
<u>Human Space Flight Operations</u>	97.8
<u>Launch Services</u>	91.9
<u>Rocket Propulsion Test</u>	47.6
<u>Communications Services Program</u>	23.4
Commercial LEO Development	17.0
STEM Engagement	127.0
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<u>STEM Engagement Program</u>	127.0

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NASA Space Grant.....	51.0
EPSCoR.....	26.0
Minority University Research Education Program.....	38.0
STEM Education & Accountability Projects.....	12.0
SAFETY, SECURITY AND MISSION SERVICES	2,936.5
Mission Services and Capabilities	1,918.3
<u>Information Technology</u>	548.6
<u>Mission Enabling Services</u>	702.5
<u>Infrastructure & Technical Capabilities</u>	667.2
Engineering, Safety and Operations	1,018.2
<u>Agency Technical Authority</u>	182.8
IV&V	39.1
<u>Center Engineering, Safety & Operations</u>	835.4
CONSTRUCTION & ENVIRONMENTAL COMPLIANCE & REST.	428.5
Construction of Facilities (CoF)	370.4
<u>Aeronautics CoF</u>	-
<u>Institutional CoF</u>	262.9
<u>Exploration CoF</u>	60.3
<u>Space Operations CoF</u>	23.9
<u>Science CoF</u>	23.3
Environmental Compliance & Restoration	58.1

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OFFICE OF INSPECTOR GENERAL	44.2