

**NATIONAL AERONAUTICS AND SPACE ADMINISTRATION FY 2023 SPENDING PLAN
FOR APPROPRIATIONS PROVIDED BY P.L. 117-328
March 2023
(Budget Authority, \$ in millions)**

	FY 2023 NASA Spending Plan
NASA	25,383.7
SCIENCE	7,795.0
Earth Science	2,195.0
<u>Earth Science Research</u>	502.0
Earth Science Research & Analysis	338.0
<i>Airborne Science (non-add)</i>	28.8
Computing & Management.....	164.0
<u>Earth Systematic Missions</u>	913.8
NASA/ISRO SAR (NISAR).....	89.2
Surface Water and ocean Topography.....	20.1
Sentinel-6.....	40.3
Plankton, Aerosol, Cloud & Ocean Ecosystem (PACE).....	112.8
Other Missions and Data Analysis.....	651.4
<u>Earth System Explorers: Other Missions and Data Analysis</u>	3.6
<u>Earth System Science Pathfinder</u>	232.1
Multi-Angle Imager for Aerosols (MAIA).....	10.6
GeoCarb.....	20.0
Venture Class Missions.....	153.9
<i>GLIMR (non-add)</i>	20.0
Other Missions and Data Analysis	47.6
<u>Earth Science Data Systems (ESDS)</u>	366.1
<u>Earth Science Technology</u>	102.2
<i>Wildfire Detection Technologies (non-add)</i>	8.0
<u>Applied Sciences</u>	75.2
Planetary Science	3,200.0
<u>Planetary Science Research</u>	290.6
Planetary Science Research & Analysis.....	205.1
Other Missions & Data Analysis.....	85.5
<u>Planetary Defense</u>	135.5
Near-Earth Object (NEO) Surveyor.....	90.0

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Other Missions & Data Analysis.....	45.5
<u>Lunar Discovery and Exploration</u>	<u>486.3</u>
Volatiles Investigating Polar Exploration Rover (VIPER).....	97.2
Other Missions & Data Analysis.....	389.1
<i>Lunar Reconnaissance Orbiter (LRO) (non-add)</i>	22.1
<i>Commercial Lunar Payload Service (CLPS) (non-add)</i>	242.3
<u>Mars Sample Return</u>	<u>822.3</u>
<u>Discovery</u>	<u>217.5</u>
DAVINCI.....	20.2
VERITAS.....	9.5
Psyche.....	109.3
Other Missions & Data Analysis.....	78.4
<u>New Frontiers</u>	<u>488.2</u>
Dragonfly.....	400.1
Other Missions & Data Analysis.....	88.1
<i>Juno (non-add)</i>	30.5
<u>Mars Exploration</u>	<u>248.1</u>
Other Missions & Data Analysis.....	248.1
<u>Outer Planets and Ocean Worlds</u>	<u>356.8</u>
Jupiter Europa.....	345.0
Other Missions & Data Analysis.....	11.8
<u>Radioisotope Power</u>	<u>154.9</u>
Astrophysics	1,510.0
<u>Astrophysics Research</u>	<u>284.8</u>
Astrophysics Research & Analysis.....	111.0
Balloon Project.....	52.6
Science Activation.....	52.0
Other Missions & Data Analysis.....	69.3
<u>Cosmic Origins</u>	<u>314.8</u>
James Webb Space Telescope (JWST).....	162.5
Hubble Space Telescope.....	93.3
Stratospheric Observatory for Infrared Astronomy (SOFIA).....	35.5
Other Missions & Data Analysis.....	23.4
<u>Physics of the Cosmos: Other Missions & Data Analysis</u>	<u>183.5</u>
<u>Exoplanet Exploration</u>	<u>490.5</u>

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Nancy Roman Space Telescope.....	447.3
Other Missions & Data Analysis.....	43.2
<u>Astrophysics Explorer</u>	<u>236.4</u>
SPHEREx.....	71.1
Other Missions & Data Analysis.....	165.4
<i>Astrophysics Future Missions (non-add)</i>	15.6
Heliophysics	805.0
<u>Heliophysics Research</u>	<u>238.2</u>
Heliophysics Research & Analysis.....	64.7
Sounding Rockets.....	60.4
Research Range.....	26.9
Other Missions & Data Analysis.....	86.2
<u>Living With a Star</u>	<u>155.2</u>
Other Missions & Data Analysis.....	155.2
<i>Geospace Dynamics Constellation (non-add)</i>	73.0
<u>Solar Terrestrial Probes</u>	<u>198.0</u>
Interstellar Mapping and Acceleration Probe (IMAP).....	120.8
Other Missions & Data Analysis.....	77.2
<i>Magnetospheric MultiScale (non-add)</i>	21.9
<i>DYNAMIC (non-add)</i>	5.0
<u>Heliophysics Explorer: Other Missions & Data Analysis</u>	<u>167.9</u>
<u>Heliophysics Technology</u>	<u>19.9</u>
<u>Space Weather</u>	<u>25.8</u>
<i>Multidisciplinary space weather research (non-add)</i>	2.0
Biological and Physical Sciences	85.0
AERONAUTICS	935.0
Aeronautics	935.0
<u>Airspace Operations and Safety Program</u>	<u>151.6</u>
<i>Adv Capabilities for Emergency Response Operations (ACERO) (non-add)</i>	10.0
<u>Advanced Air Vehicles Program</u>	<u>258.0</u>
<i>Hypersonics Technology Project (non-add)</i>	50.0
<i>Hi-rate Composite Aircraft Manufacturing (HiCAM) (non-add)</i>	25.8
<i>Optimization of Stitched Composites (non-add)</i>	10.0
<u>Integrated Aviation Systems Program</u>	<u>261.1</u>
Electrified Powertrain Flight Demonstration.....	87.0

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Low Boom Flight Demonstrator.....	74.5
Other Projects.....	99.6
<u>Transformative Aero Concepts Program</u>	<u>147.1</u>
<i>Advanced Materials Research (non-add)</i>	22.6
<u>Aerosciences Evaluation and Test Capabilities (AETC)</u>	<u>117.3</u>
SPACE TECHNOLOGY	1,193.0
Exploration Technology	1,193.0
<u>Early Stage Innovation and Partnerships</u>	<u>122.0</u>
Agency Technology and Innovation.....	1.4
Early Stage Innovation	99.1
<i>Orbital Debris Remediation (non-add)</i>	5.0
Technology Transfers	21.5
<i>Regional Economic Development (non-add)</i>	7.0
<u>Technology Maturation</u>	<u>323.9</u>
<i>Innovative Nanomaterials (non-add)</i>	5.0
<i>Lunar Surface Power (non-add)</i>	23.8
<i>Tipping Point & Announcement of Collaborative Oppts (ACO) (non-add)</i>	45.0
<i>In-Space Additive Manufacturing (non-add)</i>	15.0
<u>Technology Demonstration</u>	<u>515.4</u>
On-orbit Servicing, Assembly, & Manufacturing 1 (OSAM-1)/Restore-L/SPIDER.....	227.0
Solar Electric Propulsion (SEP).....	18.5
Small Spacecraft, Flight Opportunities & Other Tech Demonstration	269.9
<i>Nuclear Electric Propulsion (NEP) (non-add)</i>	1.3
<i>Flight Opportunities (non-add)</i>	27.0
<i>STEM and Early Career Research (non-add)</i>	5.0
<i>Nuclear Thermal Propulsion (non-add)</i>	110.0
<i>Reactor Development (non-add)</i>	45.0
<i>Fuel Materials Development (non-add)</i>	45.0
<i>Non-nuclear Systems Development (non-add)</i>	20.0
<u>SBIR & STTR</u>	<u>231.7</u>
EXPLORATION	7,449.9
Common Exploration Systems Development	4,718.9
<u>Orion Program</u>	<u>1,317.4</u>
<u>Space Launch System</u>	<u>2,566.8</u>
SLS Program Integration and Support.....	74.0
Launch Vehicle Development.....	2,492.7
<i>Block 1B Development, including EUS (non-add)</i>	648.3

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<u>Exploration Ground Systems</u>	834.8
Exploration Ground System (EGS) Development.....	823.8
<i>Mobile Launch Platform-2 (ML-2) (non-add)</i>	330.6
EGS Program Integration and Support.....	11.0
Artemis Campaign Development	2,542.4
<u>Gateway</u>	<u>779.2</u>
<u>Adv Cislunar and Surface Capabilities</u>	<u>52.2</u>
<u>Human Landing System</u>	<u>1,386.1</u>
<i>Sustaining Lunar Development (non-add)</i>	-
<i>Lunar Lander office (non-add)</i>	-
<u>xEVA and Surface Mobility Program</u>	<u>324.9</u>
Human Exploration Requirements & Architecture	48.3
<u>Moon to Mars Architecture</u>	<u>48.3</u>
Mars Campaign Development	140.3
<u>Exploration Capabilities</u>	<u>140.3</u>
SPACE OPERATIONS	4,266.7
International Space Station	1,286.2
<u>International Space Station Program</u>	<u>1,286.2</u>
ISS Systems Operations & Maintenance.....	1,034.4
ISS Research.....	251.8
Space Transportation	1,759.6
<u>Crew and Cargo Program</u>	<u>1,642.0</u>
<i>ISS Deorbit Vehicle</i>	10.0
<u>Commercial Crew Program</u>	<u>117.5</u>
Space & Flight Support	983.4
<u>21st Century Space Launch Complex</u>	<u>5.0</u>
<u>Space Communications & Navigation</u>	<u>532.0</u>
Space Communications Networks.....	424.8
Space Communications Support.....	107.2
<u>Human Space Flight Operations</u>	<u>101.5</u>

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<u>Launch Services</u>	93.9
<u>Rocket Propulsion Test</u>	48.2
<u>Communications Services Program</u>	51.7
<u>Human Research Program</u>	151.2
Commercial LEO Development	224.3
Exploration Operations	13.2
<u>Orion Production & Sustainment</u>	-
<u>Exploration Operations Program</u>	13.2
STEM ENGAGEMENT	143.5
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<u>STEM Engagement Program</u>	143.5
NASA Space Grant.....	58.0
EPSCoR.....	26.0
Minority University Research Education Program (MUREP).....	45.5
STEM Education & Accountability Projects.....	14.0
SAFETY, SECURITY AND MISSION SERVICES	3,136.5
Mission Services and Capabilities	2,067.4
<u>Information Technology</u>	628.6
<u>Mission Enabling Services</u>	754.3
<u>Infrastructure & Technical Capabilities</u>	684.5
Engineering, Safety and Operations	1,069.1
<u>Agency Technical Authority</u>	190.1
IV&V	39.1
<u>Center Engineering, Safety & Operations</u>	879.0
CESO General Reduction (non-add).....	-
Community Projects/Special Projects (non-add).....	30.7
STT Education Trust Fund Grant Disbursements (non-add).....	1.0
Office of Technology, Policy, and Strategy (OTPS).....	7.0
CONSTRUCTION & ENVIRONMENTAL COMPLIANCE & REST.	416.6
Construction of Facilities (CoF)	340.4

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<u>Aeronautics CoF</u>	-
<u>Institutional CoF</u>	230.6
<u>Exploration CoF</u>	92.0
<u>Space Operations CoF</u>	17.8
<u>Science CoF</u>	-
Environmental Compliance & Restoration	76.2
OFFICE OF INSPECTOR GENERAL	47.6