

**NATIONAL AERONAUTICS AND SPACE ADMINISTRATION FY 2024 SPENDING PLAN
FOR APPROPRIATIONS PROVIDED BY P.L. 118-42
September 2024
(Budget Authority, \$ in millions)**

| | FY 2024 NASA Spending Plan |
|---|---------------------------------------|
| NASA | 24,877.0 |
| SCIENCE | 7,325.4 |
| Earth Science | 2,187.0 |
| <u>Earth Science Research</u> | 606.7 |
| Earth Science Research and Analysis..... | 380.6 |
| Computing and Management..... | 226.1 |
| <u>Earth Systematic Missions</u> | 794.6 |
| NASA-ISRO SAR (NISAR)..... | 72.1 |
| Sentinel-6..... | 51.3 |
| Plankton, Aerosol, Cloud, Ocean Ecosystem (PACE)..... | 49.0 |
| Other Missions and Data Analysis..... | 622.1 |
| <u>Earth System Explorers: Other Missions and Data Analysis</u> | 15.4 |
| <u>Earth System Science Pathfinder</u> | 217.5 |
| Venture Class Missions..... | 165.6 |
| Other Missions and Data Analysis..... | 51.9 |
| <u>Earth Science Data Systems (ESDS)</u> | 362.9 |
| Commercial SmallSat Data Acquisition (non-add)..... | 51.4 |
| <u>Earth Science Technology</u> | 105.4 |
| Space-Based Wildfire Detection Technologies (non-add)..... | 8.0 |
| <u>Applied Sciences</u> | 84.6 |
| Planetary Science | 2,716.2 |
| <u>Planetary Science Research</u> | 336.7 |
| Planetary Science Research and Analysis..... | 219.1 |
| Other Missions and Data Analysis..... | 117.6 |
| <u>Planetary Defense</u> | 296.7 |
| Near Earth Object Surveyor (NEO) Surveyor..... | 255.7 |
| Other Missions and Data Analysis..... | 41.0 |

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| <u>Lunar Discovery and Exploration</u> | 363.4 |
| Volatiles Investigating Polar Exploration Rover (VIPER)..... | 89.3 |
| Other Missions and Data Analysis..... | 274.1 |
| <u>Mars Sample Return</u> | 310.0 |
| <u>Discovery</u> | 188.3 |
| DAVINCI..... | 30.3 |
| VERITAS..... | 5.0 |
| Psyche..... | 57.7 |
| Other Missions and Data Analysis..... | 95.2 |
| <u>New Frontiers</u> | 438.2 |
| Dragonfly..... | 360.0 |
| Other Missions and Data Analysis..... | 78.2 |
| <u>Mars Exploration: Other Missions & Data Analysis</u> | 255.0 |
| <u>Outer Planets and Ocean Worlds</u> | 352.5 |
| Jupiter Europa..... | 339.9 |
| Other Missions and Data Analysis..... | 12.6 |
| <u>Radioisotope Power</u> | 175.5 |
| Astrophysics | 1,529.7 |
| <u>Astrophysics Research</u> | 297.8 |
| Astrophysics Research and Analysis..... | 116.7 |
| Balloon Project..... | 49.3 |
| Science Activation..... | 52.0 |
| Other Missions and Data Analysis..... | 79.9 |
| <u>Cosmic Origins</u> | 339.0 |
| James Webb Space Telescope..... | 187.0 |
| Hubble Space Telescope (HST)..... | 93.3 |
| Other Missions and Data Analysis..... | 58.6 |
| <u>Physics of the Cosmos: Other Missions & Data Analysis</u> | 196.3 |

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| <u>Exoplanet Exploration</u> | 461.8 |
| Nancy Grace Roman Space Telescope..... | 407.3 |
| Other Missions and Data Analysis..... | 54.4 |
| <i>Habitable Worlds Observatory (non-add)</i> | 17.5 |
| <u>Astrophysics Explorer</u> | 234.8 |
| SPHEREx..... | 79.4 |
| Compton Spectrometer and Imager (COSI)..... | 21.8 |
| Other Missions and Data Analysis..... | 133.6 |
| Heliophysics | 805.0 |
| <u>Heliophysics Research</u> | 249.6 |
| Heliophysics Research and Analysis..... | 55.8 |
| Sounding Rockets..... | 73.1 |
| Research Range..... | 26.9 |
| Other Missions and Data Analysis..... | 93.8 |
| <u>Living with a Star: Other Missions & Data Analysis</u> | 107.4 |
| <i>Geospace Dynamics Constellation (non-add)</i> | 20.0 |
| <u>Solar Terrestrial Probes</u> | 195.9 |
| Interstellar Mapping and Acceleration Probe (IMAP)..... | 137.4 |
| Other Missions and Data Analysis..... | 58.5 |
| <i>Magnetospheric Multiscale (MMS) (non-add)</i> | 21.5 |
| <u>Heliophysics Explorer Program</u> | 206.2 |
| HelioSwarm..... | 16.2 |
| Multi-Slit Solar Explorer..... | 74.7 |
| Other Missions and Data Analysis..... | 115.3 |
| <u>Heliophysics Technology</u> | 11.8 |
| <u>Space Weather</u> | 34.1 |
| Biological and Physical Sciences | 87.5 |
| <i>Establish a Consortium (non-add)</i> | 2.5 |
| AERONAUTICS | 935.0 |

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| Aeronautics | 935.0 |
| <u>Airspace Operations and Safety Program</u> | <u>148.1</u> |
| <i>Safe Autonomous Flight Enabling Infrastructure (non-add)</i> | 6.0 |
| <i>Trusted Autonomy-enabled Technologies Flight Demonstrator (non-add)</i> | 7.0 |
| <u>Advanced Air Vehicles Program</u> | <u>259.6</u> |
| <i>Hypersonic Technology Project (non-add)</i> | 49.5 |
| <i>Establish the Making Advancements in Commercial Hypersonics (MACH) (non-add)</i> | - |
| <i>Carbon/Carbon Material Testing (non-add)</i> | 5.0 |
| <i>Automation of High-Temperature Ceramic Matric (non-add)</i> | 2.0 |
| <i>Hi-Rate Composites Aircraft Manufacturing Technology Project (non-add)</i> | 24.6 |
| <i>Optimization of Stitched Composites (non-add)</i> | 9.4 |
| <u>Integrated Aviation Systems Program</u> | <u>256.6</u> |
| Electrified Powertrain Flight Demonstration..... | 79.2 |
| Low Boom Flight Demonstrator..... | 42.6 |
| Other Projects..... | 134.7 |
| <u>Transformative Aero Concepts Program</u> | <u>154.9</u> |
| <u>Aerosciences Eval. & Test Capab. Program</u> | <u>115.8</u> |
| SPACE TECHNOLOGY | 1,100.0 |
| Space Technology | 1,100.0 |
| <u>Early Stage Innovation and Partnerships</u> | <u>116.9</u> |
| Early Stage Innovation | 95.9 |
| Technology Transfer..... | 21.0 |
| <i>Regional Economic Development Initiative (non-add)</i> | 7.0 |
| <u>Technology Maturation</u> | <u>252.7</u> |
| <i>Lunar Surface Power (non-add)</i> | 21.3 |
| <i>Innovative Nanomaterials (non-add)</i> | 6.5 |
| <u>Technology Demonstration</u> | <u>512.6</u> |
| On-orbit Servicing, Assembly, & Manufacturing 1 (OSAM-1)..... | 206.9 |
| Solar Electric Propulsion (SEP)..... | 8.5 |
| Small Spacecraft, Flight Opportunities & Other Tech Demo..... | 297.2 |
| <i>Flight Opportunities (non-add)</i> | 27.0 |
| <i>Support Payload Development (non-add)</i> | 5.0 |
| <i>Orbital Debris Inspection Mission (non-add)</i> | 5.0 |
| <i>Nuclear Thermal Propulsion (NTP) (non-add)</i> | 110.0 |

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| <i>Accelerate the Development of An Operational System (non-add).....</i> | 10.0 |
| <i>Nuclear Electric Propulsion (NEP) (non-add).....</i> | 7.0 |
| <i>Design of Test Articles to Enable a Flight Demonstration (non-add).....</i> | 7.0 |
| <i>Fission Surface Power (non-add).....</i> | 16.0 |
| <u>SBIR and STTR</u> | 217.8 |
| EXPLORATION | 7,648.0 |
| Common Exploration Systems Development | 4,810.5 |
| <u>Orion Program</u> | 1,296.4 |
| <u>Space Launch System</u> | 2,612.7 |
| Launch Vehicle Development..... | 2,539.8 |
| <i>SLS Block 1 B Development (non-add).....</i> | 462.5 |
| SLS Program Integration and Support..... | 72.9 |
| <u>Exploration Ground Systems</u> | 901.5 |
| Exploration Ground Systems Development..... | 886.8 |
| <i>Mobile Launcher-2 (ML-2) (non-add).....</i> | 356.2 |
| EGS Program Integration and Support..... | 14.7 |
| Artemis Campaign Development | 2,634.3 |
| <u>Gateway</u> | 854.5 |
| <u>Adv Cislunar and Surface Capabilities</u> | 25.6 |
| <u>xEVA and Human Surface Mobility Program</u> | 364.3 |
| <u>Human Landing System</u> | 1,389.9 |
| Human Exploration Requirements & Architecture | 62.6 |
| <u>Moon & Mars Architecture</u> | 62.6 |
| Mars Campaign Development | 140.6 |
| <u>Exploration Capabilities</u> | 140.6 |
| <i>Fabrication Laboratory (FabLab) Demonstration (non-add).....</i> | 5.0 |
| SPACE OPERATIONS | 4,220.2 |

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| International Space Station | 1,240.6 |
| <u>International Space Station Program</u> | 1,240.6 |
| ISS Systems Operations and Maintenance..... | 993.0 |
| ISS Research..... | 247.6 |
| Space Transportation | 1,746.1 |
| <u>Crew and Cargo Program</u> | 1,635.5 |
| <u>Commercial Crew Program</u> | 110.6 |
| Space and Flight Support (SFS) | 1,005.1 |
| <u>Space Communications and Navigation</u> | 522.5 |
| Space Communications Networks..... | 417.3 |
| Space Communications Support..... | 105.2 |
| <u>Human Space Flight Operations</u> | 106.5 |
| <u>Launch Services</u> | 99.3 |
| <u>Rocket Propulsion Test</u> | 48.2 |
| <u>Communications Services Program</u> | 74.4 |
| <i>Small Satellite Cross-Link Systems (non-add)</i> | 15.0 |
| <u>Human Research Program</u> | 151.2 |
| <u>21st Century Space Launch Complex</u> | 3.1 |
| Commercial LEO Development | 228.4 |
| STEM ENGAGEMENT | 143.0 |
| STEM Engagement | 143.0 |
| <u>NASA Space Grant</u> | 58.0 |
| <u>Established Prog to Stimulate Competitive Research (EPSCoR)</u> | 26.0 |
| <u>Minority University Research Education Program (MUREP)</u> | 45.5 |
| <u>Next GEN STEM (NGS)</u> | 13.5 |
| SAFETY, SECURITY AND MISSION SERVICES | 3,131.0 |
| Mission Services & Capabilities | 2,042.6 |

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| <u>Information Technology (IT)</u> | 636.7 |
| <i>Technology Modernization Fund (TMF).....</i> | 4.5 |
| <u>Mission Enabling Services</u> | 757.3 |
| <u>Infrastructure & Technical Capabilities (I&TC)</u> | 648.7 |
| Engineering, Safety, & Operations | 1,088.3 |
| <u>Agency Technical Authority</u> | 196.1 |
| <i>IV&V Program (non-add).....</i> | 39.2 |
| <u>Center Engineering, Safety, & Operations</u> | 892.2 |
| <i>Community Projects/Special Projects (non-add).....</i> | 56.7 |
| <i>STT Education Trust Fund Grant Disbursements (non-add).....</i> | 1.0 |
| CONSTRUCTION & ENVIRONMENTAL COMPLIANCE & REST. | 326.3 |
| Construction of Facilities (CoF) | 274.8 |
| <u>Aeronautics CoF</u> | - |
| <u>Institutional CoF</u> | 208.6 |
| <u>Exploration CoF</u> | 28.7 |
| <u>Space Operations CoF</u> | 29.2 |
| <u>Science CoF</u> | 8.3 |
| Environmental Compliance and Restoration | 51.5 |
| OFFICE OF INSPECTOR GENERAL | 48.1 |