



OVERVIEW

NASA’s Space Technology Mission Directorate (STMD) leads the development, demonstration, and infusion of transformational technologies that enhance NASA’s efforts to explore the unknown in space, benefit life on Earth, and solve critical stakeholder needs. Space technology investments made today are shaping the missions of the future, including to the Moon and Mars, while delivering the cutting-edge technology that will define American leadership in space exploration for years to come.

STMD engages and inspires thousands of entrepreneurs, researchers, innovators, and small businesses to solve the Nation’s toughest challenges. Cutting-edge and impactful space technology research and development take place at NASA Centers, universities, and national laboratories. STMD also leverages partnerships with other Government agencies and commercial industry to change what is possible in space.

SPACE TECHNOLOGY MISSION DIRECTORATE PROGRAM AREAS

NASA Innovative Advanced Concepts (NIAC) nurtures visionary ideas that could transform future NASA missions with the creation of breakthroughs—radically better or entirely new aerospace architectures, systems, or missions—while engaging America’s innovators and entrepreneurs as partners in the journey. NIAC projects study early, innovative, technically credible, advanced concepts that could one day change the possible in aerospace.

SPACE Technology Research Grants (STRG) accelerate the development of high-risk/high-payoff technologies to support the future space science and exploration needs of NASA, other Government agencies, and the commercial space sector. STRG challenges the spectrum of academic researchers—from graduate students to tenured faculty members—to examine the theoretical feasibility of ideas and approaches that are critical to making science, space travel, and explorations more effective, affordable, and sustainable.

FAST FACTS

Assistance Listing Number:	43.012
Authorizing Statute:	National Aeronautics and Space Act of 1958
Number of Active Awards: (FY24)	386
Average Funding Per Award: (FY24)	\$184,202
Applicant Eligibility:	Institutions of Higher Education Nonprofit Organizations For-Profit Organizations

Small Spacecraft Technology (SST) expands the ability to execute unique missions through rapid development and demonstration of capabilities for small spacecraft applicable to exploration, science, and the commercial space sector.

Flight Opportunities (FO) facilitate rapid demonstration of promising technologies for space exploration, discovery, and the expansion of space commerce through suborbital testing with industry flight providers. The flight tests take technologies from ground-based laboratories into relevant environments to increase technology readiness to validate feasibility while reducing the costs of technical risks of future missions.



SPACE TECHNOLOGY MISSION DIRECTORATE

Grants and Cooperative Agreements Profile

IMPORTANT LINKS and RESOURCES

NASA Grant and Cooperative Agreement Manual

<https://www.nasa.gov/grants-policy-and-compliance-team/#Regulations>

NASA Grants Policy and Compliance

<https://www.nasa.gov/grants-policy-and-compliance-team/>

NASA Shared Services Center

<https://www.nasa.gov/centers-and-facilities/grants-2/>

Space Technology Mission Directorate

<https://www.nasa.gov/space-technology-mission-directorate/>

STMD Funding Opportunities

<https://www.grants.gov>

<https://www.nasa.gov/stmd-solicitations-and-opportunities/>

POINT OF CONTACT

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TOTAL AWARD OBLIGATIONS PER FISCAL YEAR

FY 2024 **\$71,102,013**

FY 2023 **\$70,805,792**

FY 2022 **\$66,632,540**

FY 2021 **\$68,985,714**

FY 2020 **\$65,741,366**

