

SPACE TECHNOLOGY MISSION DIRECTORATE

Grants and Cooperative Agreements Profile

OVERVIEW

Technology drives exploration to the Moon, Mars and beyond. NASA's Space Technology Mission Directorate (STMD) develops transformative space technologies to enable future missions.

As NASA embarks on its next era of exploration, STMD is focused on advancing technologies and testing new capabilities at the Moon that will be critical for crewed missions to Mars. In many ways, the Moon will serve as a technology testbed and proving ground for Mars. STMD engages and inspires thousands of entrepreneurs, researchers, and innovators, creating a community of America's best and brightest working on the Nation's toughest challenges. Space technology research and development takes place at NASA Centers, universities, and national laboratories. STMD leverages partnerships with other Government agencies as well as commercial and international partners.

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, system, 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 student to tenured faculty member—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

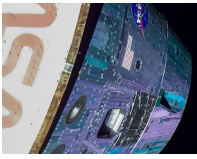
Average Number of Active Awards:
510

Average Funding Per Award:
\$183,612

Applicant Eligibility:
Institutions of Higher Education
Non-Profit 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) – facilitates rapid demonstration of promising technologies for the 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.



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IMPORTANT LINKS & RESOURCES

STMD Funding Opportunities

<https://www.grants.gov>

<https://www.nasa.gov/directorates/spacetech/solicitations>

Space Technology Mission Directorate

<https://www.nasa.gov/directorates/spacetech/home/index.html>

NASA Shared Services Center (NSSC)

<https://www.nasa.gov/centers/nssc/grants>

NASA Grants Policy and Compliance

<https://www.nasa.gov/offices/procurement/gpc>

NASA Proposer's Guidebook

https://www.nasa.gov/offices/procurement/gpc/regulations_and_guidance

NASA Grant & Cooperative Agreement Manual

https://www.nasa.gov/offices/procurement/gpc/regulations_and_guidance

TOTAL AWARD OBLIGATIONS PER FISCAL YEAR

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

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

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

FY 2019 **\$44,420,537**