



# SPACE OPERATIONS MISSION DIRECTORATE

## Grants and Cooperative Agreements Profile

### OVERVIEW

NASA's Space Operations Mission Directorate (SOMD) is responsible for enabling sustained human exploration missions and operations in our solar system.

SOMD manages NASA's current and future space operations in and beyond low-Earth orbit (LEO), including commercial launch services to the International Space Station. SOMD operates and maintains exploration systems, develops, and operates space transportation systems, and performs broad scientific research on orbit. In addition, SOMD is responsible for managing the space transportation services for NASA and NASA-sponsored payloads that require orbital launch, and the Agency's space communications and navigation services supporting all NASA's space systems currently in orbit.

### SPACE OPERATIONS MISSION DIRECTORATE PROGRAM AREAS:

**Human Research Program (HRP)** – HRP scientists and engineers work to predict, assess, and solve the problems that humans encounter in space. Planned future missions will dramatically increase the scope of the challenges and demands that face NASA's astronauts. The SOMD is working to improve astronauts' ability to collect data; solve problems; respond to emergencies; and remain healthy before, during, and after extended space travel. Part of HRP's mission is to educate the public about the challenges of human space travel. HRP research and technology supports and facilitates the work of those who navigate the outer reaches of space.

**International Space Station (ISS) Program** – This program supports the emerging commercial economy in low-Earth orbit (LEO) as well as the future of deep space human exploration. It enables scientists to identify and quantify risks to human health and performance, develop countermeasures, and develop and test technologies that protect astronauts during extended human space exploration. The ISS program supports NASA research and development in the areas of biological and physical science, as well as Earth and Space Science missions. It facilitates research to benefit humanity through the ISS National Lab. The program maintains the ISS international partnership, which has brought together astronauts and scientists from dozens of spacefaring nations in peaceful and cooperative activity.

### FAST FACTS

**Assistance Listing Number:**  
43.007

**Authorizing Statute:**  
National Aeronautics and Space Act of 1958

**Average Number of Active Awards:**  
135

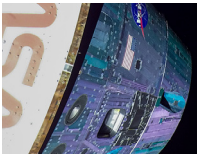
**Average Funding Per Award:**  
\$279,342

**Applicant Eligibility:**  
Institutions of Higher Education  
Non-Profit Organizations  
For-Profit Organizations

**Crew and Cargo Program (CCP)** – This program develops and operates safe, reliable, and affordable crew transportation systems capable of carrying humans to and from the ISS and other destinations in LEO. It works with industry to develop and provide human transportation services to and from space, laying the foundation for more affordable and sustainable future human space transportation. These partnerships bolster American leadership in space, have ended our sole reliance on foreign providers for crew transportation services, help stimulate the American aerospace industry, and allow NASA to focus on building the capabilities and expertise necessary for missions to the Moon and Mars.

**Commercial LEO Development Program** – It focuses on the development of a robust commercial space economy in LEO.

**Space Communications and Navigation (SCaN) Program** – It provides communication to missions in LEO, including ISS, suborbital missions, and some lunar orbital missions, utilizing the Near Space Network. The Deep Space Network communicates with the missions most distant from Earth and will initially provide primary communications links to Artemis missions. SCaN is planning for expanded services for missions to the Moon, including lunar relay capability for missions that cannot communicate directly with Earth and enhanced position, navigation, and timing services that are less dependent on tracking stations on Earth.



# SPACE OPERATIONS MISSION DIRECTORATE

## Grants and Cooperative Agreements Profile

**Communications Services Program** – This program focuses on demonstrating the feasibility of using commercially provided satellite communications (SATCOM) services to support NASA missions.

**Launch Services Program (LSP) Program** – This program supplies expertise and active launch mission management for more than 70 NASA and other Government missions in various stages of development.

**Rocket Propulsion Test Program** – The program manages a wide range of facilities capable of ground testing rocket engines and components under controlled conditions

**Human Space Flight Operations Program** – This program provides the training and readiness to ensure crew health and safety and mission success.

### TOTAL AWARD OBLIGATIONS PER FISCAL YEAR

FY 2022 **\$30,119,288**

FY 2021 **\$33,409,190**

FY 2020 **\$37,070,491**

FY 2019 **\$37,956,685**

### IMPORTANT LINKS & RESOURCES

#### Space Operations Funding Opportunities

<https://www.grants.gov>

<https://nspires.nasaprs.com/external/>

#### Space Operations

Space Operations Mission Directorate | NASA

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

#### 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](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](https://www.nasa.gov/offices/procurement/gpc/regulations_and_guidance)