NASA STEM ENGAGEMENT
...AT A GLANCE

National Aeronautics and
Space Administration

NASA'S STEM ENGAGEMENT ENTERPRISE
We Engage Students in NASA's Mission

Create **unique opportunities** for students to contribute to NASA's work in exploration and discovery.

Build a **diverse future STEM workforce** by engaging students in authentic learning **experiences** with NASA's people, content and facilities.

Strengthen **understanding of STEM** by enabling **powerful connections** to NASA's mission and work.

OUR PROJECTS

MUREP: Minority University Research Education Project (MUREP) investments enhance the research, academic and technology capabilities of Minority Serving Institutions through multiyear grants. Awards assist faculty and students in research and provide authentic STEM engagement related to NASA missions. These competitive awards provide NASA-specific knowledge and skills to learners who have historically been underrepresented and underserved in STEM.

Space Grant: The National Space Grant College and Fellowship Program (Space Grant) is a network of colleges and universities that are working to expand opportunities for students to understand and engage in NASA's missions by supporting and enhancing, science and engineering, education and research. Space Grant has over 1,000 affiliates from 52 consortia in all 50 states, the District of Columbia and Puerto Rico.

EPSCoR: The Established Program to Stimulate Competitive Research (EPSCoR), establishes partnerships with government, higher education and industry that are designed to effect lasting improvements in a state's or region's research infrastructure, R&D capacity and hence, its national R&D competitiveness.

Next Gen STEM: A series of efforts to develop STEM products and opportunities that provide a platform for students to contribute to NASA's endeavors in exploration and discovery. These mission-driven activities include over 20 evidence-based products and opportunities to engage students in authentic STEM experiences.

ARTEMIS

STUDENT CHALLENGES

nasa.gov/artemis

Student Launch is a research-based, competitive experiential exploration activity. It strives to provide relevant, cost-effective research and development of rocket propulsion systems.

Human Exploration Rover Challenge is an annual competition that challenges high school and college students worldwide, to create a vehicle designed to traverse the simulated surface of another world.

Micro-G Neutral Buoyancy Experiment Design Teams (Micro-G NExT) encourages undergraduate students to design, build and test a tool or device that addresses an authentic, current space exploration challenge.

First Nations Launch Competition provides Native American college students the opportunity to build and launch class K high-powered rockets. Teams attend workshops to learn concepts necessary for a succesful launch.

NASA Spacesuit User Interface Technologies for Students (SUITS) Design Challenge requires student teams to design and create spacesuit information displays within an augmented reality environment.

Lunabotics Competition challenges teams to design, build and run their autonomously operated robot, traverse the simulated off-world terrain and excavate the simulated lunar regolith.

Big Idea Challenge offers real world experience for students from Space Grant-affiliated colleges and universities to design lunar payloads needed for exploration and science in and near the Moon's polar regions.

NASA INTERNSHIPS
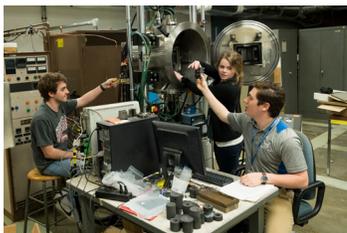
8,005
Internships & Fellowships in FY18

$32,000,000
in direct financial support to higher education students

39.5%
of NASA's higher education internships & fellowships positions were filled by women

30.2%
awarded to racially or ethnically underrepresented student participants,

STUDENT ENGAGEMENT & RESOURCES

Forward to the Moon with Artemis

National Park Service Junior Ranger Spaceflight Explorer

Explore STEM Bookmarks

NASA EXPRESS

Opportunities for students & educators to sign up today!

Available for Download: www.spacestem.nasa.gov/printables

www.nasa.gov/stem/express