



UTILIZING OPPORTUNITIES WITHIN THE OFFICE OF EDUCATION

April 4, 2017

***NASA HBCU/MSI TECHNOLOGY
INFUSION ROAD TOUR
TENNESSEE STATE UNIVERSITY
NASHVILLE, TN***

Objectives

- NASA Priorities & Education Strategy
- Where to find opportunities
- Ways to engage with NASA
- Student opportunities
- Q&A
- Contact Us

NASA Agency Priorities

❑ NASA Strategic Plan

https://www.nasa.gov/sites/default/files/files/FY2014_NASA_SP_508c.pdf

Goal 2: Advance understanding of earth and develop technologies to improve the quality of life on our home planet.

Objective 2.4: Advance the Nation's STEM education and workforce pipeline by working collaboratively with other agencies to engage students, teachers and faculty in NASA's missions and unique assets.

❑ NASA Education Implementation Plan 2015-2017

http://www.nasa.gov/sites/default/files/atoms/files/nasa_education_implementation_plan_2015-2017.pdf

❑ Multi-year Performance Goals and Annual Performance Indicators

https://www.nasa.gov/sites/default/files/atoms/files/nasa_fy2015_apr-fy2017_app.pdf

NASA Office of Education Strategy

FOUR LINES OF BUSINESS

LEARNERS

STEM Engagement (SE) provides opportunities for participatory and experiential learning activities to connect learners to NASA-unique resources.

NASA Internships, Fellowships, and Scholarships (NIFS) utilizes NASA's facilities and assets to provide work experiences and research and educational opportunities to improve retention in STEM and prepare students for employment in STEM jobs.

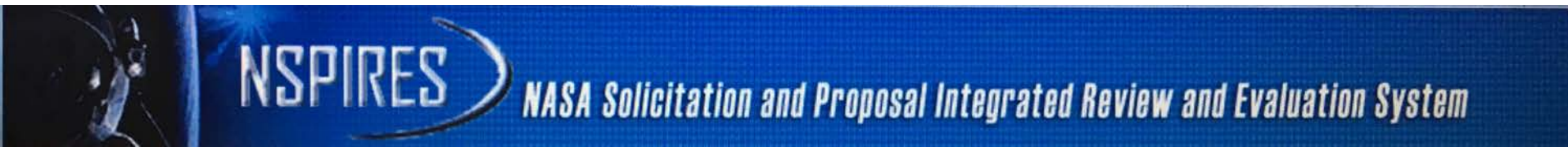
EDUCATORS

Educator Professional Development (EPD) prepares STEM educators and leaders to deliver quality STEM instruction utilizing unique NASA assets and content.

INSTITUTIONS

Institutional Engagement (IE) focuses on improving the capacity of U.S. institutions to deliver effective STEM education.

NSPIRES



Supporting research in science and technology is an important part of NASA's overall mission. NASA solicits this research through the release of various research announcements in a wide range of science and technology disciplines. NASA uses a peer review process to evaluate and select research proposals submitted in response to these research announcements. Researchers can help NASA achieve national research objectives by submitting research proposals and conducting awarded research. This site facilitates the search for NASA research opportunities.

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

EONS

Space Act Agreements

Space Act Agreements (abbreviated SAA) are a type of legal agreement specified in the National Aeronautics and Space Act of 1958 (and subsequent congressional authorizations) that uniquely empowers NASA to work with any entity that enables fulfillment of the Administration's mandate.

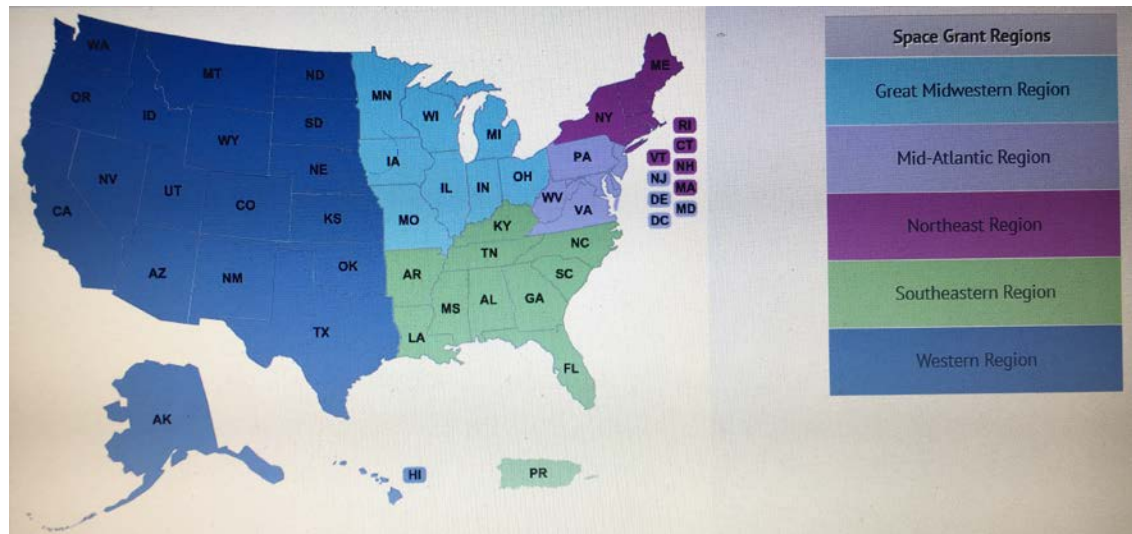
- **Reimbursable Agreements** - Agreements where NASA's costs associated to the activity are reimbursed by the Agreement Partner (in full or in part).
- **Non-reimbursable Agreements** - Agreements that involve NASA and one or more Agreement Partners in a mutually beneficial activity that furthers the Agency's Missions. Unlike Reimbursable Agreements, each partner bears the cost of its participation and no funds are exchanged between the parties.
- **Funded Agreements** - Agreements where appropriated funds are transferred to a domestic Agreement Partner to accomplish an Agency mission.
- **International Agreements** - Reimbursable or Non-reimbursable Agreements where the Agreement Partner is a foreign entity.

Space Grants



<https://www.nasa.gov/offices/education/programs/national/spacegrant/home/index.html>

The National Space Grant Foundation (NSGF) is a tax exempt 501(c)(3) organization whose purpose is to support and enhance the Space Grant Consortia in every state to carry out education, research, and public outreach activities in science, mathematics, engineering, and technology and additional fields, related to space, aeronautics, aviation, and Earth system science.



EPSCoR



<https://www.nasa.gov/offices/education/programs/national/epscor/home/index.html>

The Experimental 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. The EPSCoR program is directed at those jurisdictions that have not in the past participated equably in competitive aerospace and aerospace-related research activities. Five federal agencies conduct EPSCoR programs, including NASA.

MUREP

The Minority University and Research Program (MUREP) was established to **increase NASA's responsiveness to federal mandates** related to Minority Serving Institutions (MSIs) and underrepresented and underserved communities, including women, girls, persons with disabilities and veterans.

- MUREP Educator Institutes (MEI)
- MUREP Institutional Research Opportunity (MIRO)
- MUREP Community College Curriculum Improvement (MC3I)
- MUREP STEM Engagement (MSE)
- MUREP Aerospace Academy (MAA)
- MUREP Other Opportunities (MOO)
- MUREP American Indian & Alaskan Native STEM Engagement (MAIANSE)
- Earth Systems, Technology and Energy Education For MUREP (ESTEEM)
- MUREP Funded – NCAS
- MUREP Funded - NIFS

NASA Internships, Fellowships and Scholarships Program (NIFS)

The NASA Internships, Fellowships and Scholarships (NIFS) Program, managed and executed by NASA Office of Education personnel, is designed to contribute to the achievement of NASA Strategic Objective 2.4, *Advance the Nation's STEM education and workforce pipeline by working collaboratively with other agencies to engage students, teachers and faculty in NASA's missions and unique assets.*

NIFS provides interns a paid learning and working experience in an authentic NASA-unique STEM environment to inspire, engage, and retain students in STEM careers. NIFS internships result from competitive selection for posted opportunities which operates Fall, Spring, and Summer sessions (16 weeks for Fall and Spring, and 10 weeks for Summer sessions), with an additional option for year-long opportunities as well. NIFS Intern applicant eligibility criteria includes:

- US citizenship;
- a minimum 3.0 GPA on a scale of 4.0;
- a minimum age of 16 years;
- if at the high school level, current enrollment as a high school sophomore, junior or senior;
- if at the undergraduate or graduate level, acceptance or full time enrollment in an accredited US college or university.



NASA conducts NIFS internship opportunities posting through it's "One Stop Shopping Initiative" (OSSI) tool at <https://intern.nasa.gov/>. OSSI is a NASA-wide system for the recruitment, application, competitive selection of students for opportunities primarily in science, technology, engineering and mathematics disciplines. Additionally, opportunities for students in other disciplines which support excellence in STEM, including but not limited to, finance, communications, and education, are also posted in this system.

NASA Education Fellowships and Scholarships are competitively-awarded graduate-level scholarship awards in response to the NASA Education Aeronautics Scholarship and Advanced STEM Training and Research (AS&ASTAR) Fellowship solicitation. The AS&ASTAR solicitation is issued on an annual basis through the NASA Solicitation and Proposal Integrated Review and Evaluation System (INSPIRES) website, <https://nspires.nasaprs.com>. This solicitation represents the aggregated and collaborative graduate-level research needs of NASA's Office of Education, Aeronautics Research Mission Directorate, Human Exploration and Operations Directorate, Science Director, and NASA Centers. The selected research proposals result in a Fellowship award to an individual who then conducts research in collaboration with the sponsoring NASA Technical Advisor. This selection is likewise processed via OSSI.

Questions

Contact MUREP

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