NASA Education
FOR YOU
2017
FOR STUDENTS
FOR EDUCATORS
FOR PARTNERS AND INSTITUTIONS
FOR OTHER STAKEHOLDERS

STEM Is the Future—How Will You Get Involved?
Science, Technology, Engineering, Mathematics

Inspire Engage, Educate, Employ.

National Aeronautics and Space Administration
NASA EDUCATION MISSION:

Advance high-quality STEM education using NASA’s unique capabilities.
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NASA IS ON A QUEST TO EXPLORE SPACE AND ADVANCE AERONAUTICS. TO SUCCEED IN OUR MISSIONS, NASA NEEDS YOU!

You are NASA’s future workforce, and there are many ways you can get involved to prepare yourself to lead future missions. NASA offers unique STEM experiences for students, whether working alongside scientists and researchers or sending research projects to space.

**NASA Internships** support educational work opportunities that provide exclusive NASA-specific experiences for educators and high school, undergraduate, and graduate students. **NASA Fellowships** support independently conceived or designed research, or senior design projects by highly qualified faculty, undergraduate students, and graduate students, in disciplines needed to help advance NASA’s missions. **NASA Scholarships** provide financial support to undergraduate and graduate students for studies in STEM disciplines.

Learn more at [intern.nasa.gov](http://intern.nasa.gov).
Imagine designing your own satellite or experiment and having it flown and tested in space!

If your interests are focused on lab research, NASA has many opportunities including such projects as analyzing plants that can survive in space and testing the long-term effects of space travel on humans and other organisms, just to name a few.
NASA EDUCATION FOR STUDENTS

WE WILL TAKE YOU ON A JOURNEY OF EXPLORATION AND DISCOVERY BY FACILITATING RESEARCH AND WORK EXPERIENCES THAT WILL HELP YOU LAUNCH YOUR CAREER IN STEM.
Are you interested in earning a scholarship or becoming a NASA intern or fellow? View current opportunities at https://go.nasa.gov/2nS7Rku or apply at intern.nasa.gov. High school, undergraduate, international, and graduate students are eligible.

Check out our list of student programs, competitions, challenges and more to work alongside our scientists or have your experiments tested in space. http://go.nasa.gov/2iwQ92G


LET’S CONNECT! Follow, share, and be a part of the conversation with NASA to learn more about our missions, people and programs. https://www.nasa.gov/socialmedia
WE KNOW YOU ARE CHARGED WITH SHAPING THE MINDS OF OUR FUTURE INNOVATORS. THAT IS WHY WE PROVIDE A WEALTH OF NASA-THEMED STEM EDUCATION RESOURCES FOR EDUCATORS AND STUDENTS.

**Educator Professional Development (EPD)**
NASA offers EPD to in-service, pre-service and informal educators to provide knowledge, skills, and engaging STEM content.

**STEM Education Experiences**
Hands-on STEM education experiences for your students such as competitions, lectures, webcasts, and workshops are available at [http://go.nasa.gov/2iwUKSF](http://go.nasa.gov/2iwUKSF).

**NASA Educational Resources**
For information on geographic-specific educational resources and services, contact a NASA Educator Resource Center (ERC). Personnel may provide in-service and pre-service training using NASA-inspired support materials. Find a NASA ERC at [http://go.nasa.gov/2iwU0NI](http://go.nasa.gov/2iwU0NI).
JOIN OUR NASA FAMILY!
WE PROVIDE HIGH-QUALITY STEM LEARNING EXPERIENCES FROM K-12 THROUGH GRADUATE EDUCATION, AS WELL AS FOR INFORMAL AND PRE-SERVICE EDUCATORS.

Educational Resources
Search hundreds of educational resources with a NASA twist by subject, grade level, type and keyword. http://go.nasa.gov/2ix0M5w

Professional Development
Browse STEM-related professional development opportunities including webinars, workshops, and ways for you and your students to get involved with NASA. http://go.nasa.gov/slzVqrinars

NASA Express Newsletter
Sign up to receive updates about workshops, internships, and fellowships; grants or collaborations; promotions for student and educator opportunities; online professional development and more! http://go.nasa.gov/2iwVZ4e

NASA Digital Learning Network
Register to virtually bring NASA scientists and education specialists covering standards-based (i.e., CCSS, NGSS) content to your classroom. https://www.nasa.gov/dln

OUR MISSIONS AND RESEARCH FACILITIES WILL EXCITE YOUR STUDENTS!
### Additional NASA Education Resources

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### MAKE SURE TO FOLLOW, SHARE, AND BE A PART OF THE STEM EDUCATION CONVERSATION WITH NASA.

- [Facebook](http://go.nasa.gov/2lJmvf2)
- [@NASAedu](http://go.nasa.gov/2lJDZIb)
“EDUCATION IS NOT THE FILLING OF A PAIL, BUT THE LIGHTING OF A FIRE.”

-WILLIAM BUTLER YEATS
DO YOUR ORGANIZATION’S GOALS INCLUDE ADVANCING STEM EDUCATION? REACH OUT TO US.

Let’s explore how we can work together. NASA Education offers two types of partnerships — high-impact, broad implementation partnerships and smaller, localized partnerships. Both work toward reaching wide, diverse audiences and achieving mutually beneficial objectives in advancing STEM education.
LET’S WORK TOGETHER!
NASA Education partners with governmental, academic, industrial, entrepreneurial, non-profit and international organizations to leverage resources, reach wider and more diverse audiences, and achieve mutually beneficial objectives.

WHAT STEM EDUCATION AREAS DO OUR PARTNERSHIPS ADDRESS?
NASA previously has partnered with institutions, other federal agencies, private organizations, and industry partners to do the following:

1. Bring academic enrichment experiences to students enrolled in out-of-school-time programs, which serve students attending high-poverty and low-performing schools. The enrichment experiences use NASA’s unique mission of research and exploration as a context for engagement.

2. Provide a series of professional development training sessions designed to help pre- and in-service educators across the United States use NASA educational resources in their classroom instruction.

3. Develop a nationwide challenge to teach STEM concepts behind NASA missions.

4. Integrate NASA-themed STEM-education experiential learning activities into entertainment events such as stage performances for young audiences.
High Impact / Broad Implementation Partnerships
NASA Education uses competitive announcements to establish high-impact, broad implementation partnerships serving large numbers of people. Read through the NASA Announcement for High Impact / Broad Implementation STEM Education Partnerships at http://go.nasa.gov/2gGT2NJ. If you are interested submit a response via NASA Solicitation and Proposal Integrated Review and Evaluation System at https://nspires.nasaprs.com/external/.

Smaller, Localized Partnerships
Partnerships that serve smaller numbers of people within a local, state, or regional scale may work together directly with a NASA center to establish the partnership. To establish a smaller-scale partnership, contact an education director at a NASA center at http://go.nasa.gov/2moX5R8.

Space Act Agreements
NASA Education uses non-reimbursable Space Act Agreements to formalize partnerships. A non-reimbursable Space Act Agreement involves NASA and its partner in a mutually beneficial activity that furthers NASA’s and the partner’s mission. Each partner bears the cost of its participation, and there is no exchange of funds between the partners. For more information, view the Space Act Agreements Guide at http://go.nasa.gov/2jZyn8X.
INFORMAL AND FORMAL EDUCATIONAL INSTITUTIONS, LET’S WORK TOGETHER TO INCLUDE NASA CONTENT INTO YOUR PROGRAMS.

NASA’s Competitive Programs for Science Museums, Planetariums, and NASA Visitors Centers, Plus Other Opportunities (CP4SMPVC+) can enhance programs at your organization related to space exploration, aeronautics, space science, earth science, or microgravity. http://go.nasa.gov/2jba9bZ

NASA’s Museum Alliance brings NASA science and technology to informal education providers. Over 1,400 professionals at more than 700 U.S. museums, science centers, planetariums, NASA Visitor Centers, and other youth-serving organizations are partners in the Museum Alliance. https://informal.jpl.nasa.gov/museum/

Minority University Research and Education Project (MUREP) investments are designed to enhance the academic and research infrastructure at Minority Serving Institutions through multi-year awards that strengthen research and education outcomes in NASA-related fields. https://www.nasa.gov/education/murep

Space Grant works collaboratively with more than 800 formal and informal educational institutions to offer grant, scholarship, and fellowship opportunities in all 50 U.S. states, the District of Columbia, and Puerto Rico. https://www.nasa.gov/education/spacegrant

Experimental Program to Stimulate Competitive Research (EPSCoR) provides competitive grants that establish partnerships among government, higher education, and industry. EPSCoR promotes lasting improvements in the research and development capacity of an eligible state. https://www.nasa.gov/education/epscor
NASA EDUCATION IS TAKING THE WORLD ON A JOURNEY OF EXPLORATION AND DISCOVERY BY ENGAGING AUDIENCES OF ALL AGES IN FORMAL AND INFORMAL SETTINGS WITH ITS MISSIONS.

WHAT WE DO
NASA Education’s mission advances high-quality STEM education using NASA’s unique capabilities, assets, and expertise. NASA’s education programs develop and deliver activities that support the growth of the Agency’s and the Nation’s STEM workforce, help develop STEM educators, engage and establish partnership with institutions, and inspire and educate the public.

HOW WE DO IT
NASA Education provides unique educational experiences to learners, educators, and institutions through four initiatives:

STEM Engagement: Provides opportunities for participatory and experiential learning activities in formal and informal education settings to connect learners to NASA-unique resources.

Educator Professional Development: Uses NASA’s missions, education resources, and unique facilities to provide high-quality STEM content and hands-on learning experiences to K-12, informal, and pre-service educators.

NASA Internships, Fellowships and Scholarships: Leverage NASA’s unique missions and programs to enhance and increase the capability, diversity, and size of the Nation’s future STEM workforce.

Institutional Engagement: Increases STEM capabilities at formal and informal education institutions and organizations by incorporating content based on NASA’s missions.
NASA EDUCATION’S PROGRAMS AND ACTIVITIES REACH THE ENTIRE COUNTRY. WE PROVIDE EDUCATORS, STUDENTS AND EDUCATIONAL INSTITUTIONS NASA-THEMED STEM EDUCATION RESOURCES.*

Space Grant consortia have more than 950 affiliates from universities, colleges, industry, museums, science centers, and state and local agencies.

The NASA Museum Alliance includes more than 700 museums, science centers, planetariums, NASA Visitor Centers, Challenger Centers, observatories, parks, libraries, camps, and youth-serving organizations.

- **Space Grant Consortia:** 52 in 50 states
- **NASA Centers:** 10 centers in 8 states
- **Experimental Program to Stimulate Competitive Research:** 27 programs in 27 states
- **Partners:** 42 partners in 17 states
- **NASA’s Competitive Programs for Science Museums, Planetariums, and NASA Visitor Centers, Plus Other Opportunities:** 31 active awards in 21 states
- **Minority University Research Education Project:** 112 active Minority Serving Institutions in 30 states

*This information represents FY2016 data.*
NASA EDUCATION FOR OTHER STAKEHOLDERS

NASA’S STEM EDUCATION EXPERTISE, AND THE AGENCY’S MISSIONS AND ASSETS, MAKE SIGNIFICANT CONTRIBUTIONS TO THE NATION’S STEM EDUCATION ACHIEVEMENTS.

OUR PROGRAMS

NASA Education programs are available in all 50 states, the District of Columbia, and Puerto Rico. The Office of Education has two primary programs, the STEM Education and Accountability (SEA) program and Aerospace Research and Career Development (ARCD). NASA actively recruits learners who are underrepresented and underserved in STEM fields, including minorities, women and girls, and persons with disabilities.

SEA: The SEA program, through support for NASA centers and competitive awarding of Federal and domestic assistance funds, provides learners and educators with access to NASA assets. SEA’s MUREP and STEM Education Accountability Project (SEAP) connect NASA’s partners to NASA’s scientific discoveries, aeronautics research, and exploration endeavors to support the Nation’s STEM education priorities.

ARCD: The ARCD program strengthens the research capabilities of the Nation’s colleges and universities and provides opportunities that attract and prepare an increasing number of students for NASA-related careers. Projects in the ARCD program include the National Space Grant College and Fellowship Program (Space Grant) and the Experiential Program to Stimulate Competitive Research (EPSCoR). Both are competitive grant opportunities.
Learn more about NASA’s education projects:

**NASA Education:**
https://www.nasa.gov/education

**National Space Grant College and Fellowship Program:**
https://www.nasa.gov/education/spacegrant

**Experimental Program to Stimulate Competitive Research:**
https://www.nasa.gov/education/epscor

**Minority University Research and Education Program:**
https://www.nasa.gov/education/murep

**STEM Education and Accountability Project:**
http://www.nasa.gov/education/seap
NASA Education

FOR STUDENTS

FOR EDUCATORS

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FOR THE PUBLIC AND STAKEHOLDERS

National Aeronautics and Space Administration

NASA Headquarters
300 E Street SW
Washington, DC 20546
http://www.nasa.gov/centers/hq

www.nasa.gov

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Science, Technology, Engineering, Mathematics