

About NSSEC

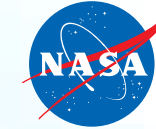
Sharing Science and Technology

The NASA Space Science Education Consortium (NSSEC) capitalizes on NASA's rich history of exploration and scientific discovery through compelling and innovative space science education programs. The NSSEC continues the Science Mission Directorate's work at the forefront of NASA's educational achievements by linking exciting mission discoveries directly to the American public and partnering with the NASA education community, as well as people and groups outside of NASA.

The NSSEC brings a variety of products, programs, and tools to space science education.

- Large-scale events
 - Eclipse 2017
 - Sun-Earth Days
- Data-intensive tools
 - Helioviewer
- Informal programs
 - Planetarium shows
 - Educational events at libraries, museums, and national parks
- Citizen science
 - Aurorasaurus
 - Radio JOVE
- Out-of-school-time resources
 - NASA Family Science Night
 - Afterschool Universe
- Crosscutting infrastructure
 - Space Math
 - STEM Innovation Lab
 - Virtual Reality
 - 3D printing

National Aeronautics and Space Administration



Get Involved!

Are you
interested in
collaborating or
sharing your
thoughts
with NSSEC?

Reach the
team here:
steminnovationlab.org/about

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NASA Space Science
Education Consortium • Code 670
NASA Goddard Space Flight Center
Greenbelt, MD 20771

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www.nasa.gov



NSSEC
NASA SPACE SCIENCE
EDUCATION CONSORTIUM

EXPLORE.
DISCOVER.
LEARN!

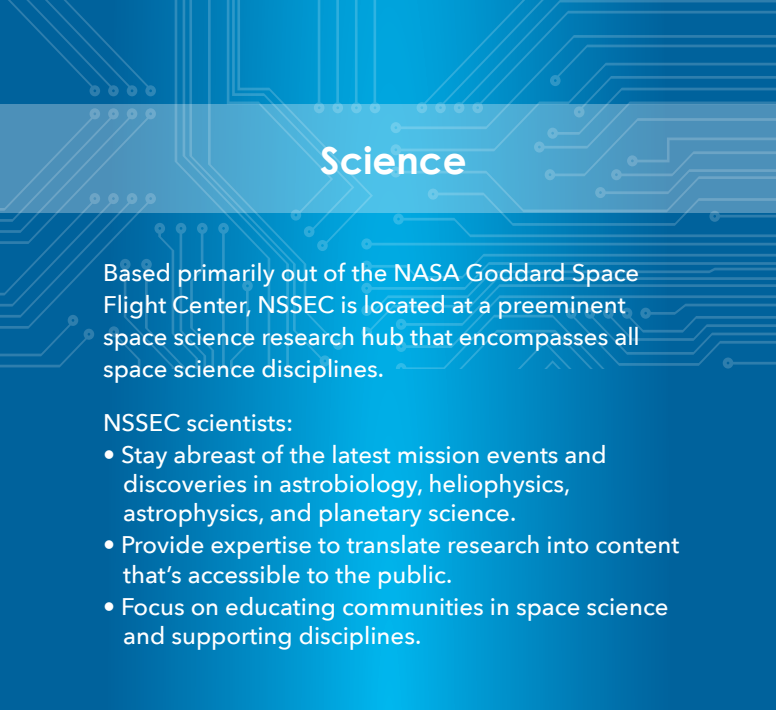
Educational Technology

New Education Programs

NSSEC continually incorporates novel technologies into science education programming, while focusing on educator needs. They are comprised of industry leaders in IT and data services, who provide insight into innovative education tactics for a variety of populations.

One way that NSSEC utilizes educational technology is through their STEM Innovation Lab, a space science application think tank. This lab:

- Brings together NASA scientists, engineers, and educators.
- Explores and develops new ideas related to the infusion of educational technology into STEM activities.
- Includes more than a dozen exploration stations that dive into 2D and 3D printing, coding and electronics, virtual reality, and more.
- Blends together different technologies for greater impact on learners and integration into NASA education programs.



Science

Based primarily out of the NASA Goddard Space Flight Center, NSSEC is located at a preeminent space science research hub that encompasses all space science disciplines.

NSSEC scientists:

- Stay abreast of the latest mission events and discoveries in astrobiology, heliophysics, astrophysics, and planetary science.
- Provide expertise to translate research into content that's accessible to the public.
- Focus on educating communities in space science and supporting disciplines.

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Citizen Science

- Aurorasaurus calls upon citizen scientists to report aurora sightings to help experts confirm the mathematical modeling of where the aurora should be spotted.
- Radio JOVE allows students and amateur scientists to build their own telescopes to observe and analyze natural radio emissions of Jupiter, the Sun, and our galaxy.

- Freshwater mapping in Native American communities, where people photograph still water in their areas.

EXPLORE. DISCOVER. LEARN!

Join us on NASA's
exciting mission
of discovery



Develop engaging STEM education for your community



Community Outreach

- Out-of-school-time resources
 - Afterschool Universe and NASA Family Science Night.
- Educational events at National Parks.
- Partnerships with:
 - Libraries, museums, and science centers to reach both children and adults.
 - Amateur astronomy organizations such as the Night Sky Network and the Astronomical League engage the science interested public through star parties and observing challenges.
 - Conferences like AwesomeCon, Escape Velocity, and ISTE to engage with Lifelong Learners.
- Partners located nationally work with NSSEC to connect with specialized groups, like Native Americans and Alaskan Natives, to encourage effective STEM education.

Accessibility

- Reaching out to unique segments of the country with specialized, culturally appropriate approaches to learning.
- Providing communication training for professional and amateur scientists and informal educators so they become better ambassadors of content.
- Integrating elements of universal design and user experience (UX) with 508 Compliance.