



U.S. National Science Foundation

NSF 75 YEARS OF INNOVATION

2025 marks the 75th anniversary of NSF. Throughout the year, the agency will host in-person and virtual activities to commemorate this significant milestone. For more information, visit: nsf.gov/75years



GUAM

● FAST FACTS



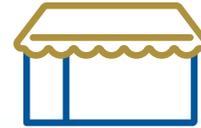
\$4,174,000

Total NSF Awards to Guam



\$4,174,000

Invested in Fundamental Research in Guam



\$247,000

Invested in Guam Businesses

● TOP NSF-FUNDED ACADEMIC INSTITUTIONS

University of Guam
\$3,927,000

● NSF BY THE NUMBERS

The U.S. National Science Foundation (NSF) is an independent federal agency created by Congress in 1950 to promote the progress of science; to advance the national health, prosperity, and welfare; and to secure the national defense. To fulfill this vital role, NSF supports basic research and researchers who create knowledge that transforms the future.

DID YOU KNOW? NSF has funded the work of **268** Nobel Prize winners over 75 years.



\$9.06B

FY 2024
Total Enacted

92%
Funds research, education and related activities



11K
Awards



1.9K
Institutions



358K
People

"Data represents FY 2024 Actuals unless otherwise indicated"



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INNOVATION | *Generating new knowledge that provides a greater understanding of the world around us*

Guam is in close proximity to diverse, complex and understudied coral reef systems that are rapidly dying. Through the NSF EPSCoR Research Infrastructure Improvement Program Track-1, the **University of Guam** leads a world-class research and STEM training facility working to address the challenges to the survival of the remaining coral reefs. Using state-of-the-art techniques, researchers from within Guam and from across the nation study how these coral reef systems, and their associated animals and plants, respond to diseases and ecosystem alterations that are becoming more prevalent in the region. In addition, the project is developing a state-of-the-art digitization, imaging and mapping laboratory and an online catalogue of over 4,000 animals and plants that live in the region so that they can be archived for future generations. Finally, this project is further establishing the university's cyberinfrastructure as a nexus for high-speed networks in the Pacific Rim and building virtual supercomputer capabilities for Big Data analysis to support the genomic and oceanographic components of the project.

EXPANDING FRONTIERS | *Generating institutional capacity, new technologies and societal impact*

Set Point Solutions, a Guam-based technology company, received an NSF Small Business Innovation Research Phase I award to extend the range of on-hand wireless communications devices to austere and remote environments. The company is developing its propeller-enabled Projectile Assisted Repeater/Relay Of Transmissions (PARROT) technology, which allows users to prescribe the location of a relay and rapidly introduce that physical relay into their environment. Using this technology, public safety agencies will be able to use available resources more efficiently, precisely geolocating distressed individuals and/or connecting individuals in need with specific resources and personnel to facilitate their rescue. Additionally, the PARROT would be a lifesaving piece of equipment for individuals whose work often requires them to be in areas lacking robust or functioning communication infrastructure, including commercial truck drivers, Customs and Border Patrol agents, Federal Emergency Management Agency responders and search and rescue teams.

EDUCATION AND WORKFORCE | *Supporting our STEM talent of today and tomorrow*

The Optimizing Research Infrastructure in Guam (ORIG) project is building networks within Guam's research ecosystem to promote and support the development of competitive scientific research. The project is led by the **University of Guam** in collaboration with **Guam Community College** and is funded through the NSF EPSCoR Collaborations for Optimizing Research Ecosystems Research Infrastructure Improvement (NSF E-CORE RII) program. ORIG coordinates research activities and the provision of administrative, management and project development practices that promote research ecosystem growth. Additionally, ORIG supports the development of Guam's research infrastructure. This will lead to the training of a workforce ready to engage with emerging economic opportunities driven by scientific research and development. The ORIG team is working in partnership with the Guam Science and Technology Steering Committee and other stakeholders to assess the state of Guam's current research enterprise and identify areas and opportunities for future growth.

COMPETITIVE RESEARCH

GUAM is one of 28 U.S. states or territories under the NSF Established Program to Stimulate Competitive Research (EPSCoR) and recently received an award through NSF's new E-CORE program. For more information, visit [GUAM'S EPSCoR state web page](#).

NCSSES

The [National Center for Science and Engineering Statistics \(NCSSES\)](#) within the U.S. National Science Foundation is the nation's leading provider of statistical data on the U.S. science and engineering enterprise. As a principal federal statistical agency, NCSSES conducts nationally representative surveys and publishes objective data and reports on topics related to research and development, the science and engineering workforce, and STEM education.

For more information on NSF's impact in your state, please contact NSF Office of Legislative and Public Affairs at congressionalteam@nsf.gov.

LEARN MORE

- **BROUGHT TO YOU BY NSF** – NSF has invested in discoveries, inventions, and innovations that have shaped the modern world, including the internet, 3D printing, American Sign Language, Magnetic Resonance Imaging (MRI), deep sea exploration, Doppler radar and more. For more information on NSF impacts, please visit: [nsf.gov/impacts](https://www.nsf.gov/impacts).
- **RESEARCH SECURITY** – NSF is committed to safeguarding the integrity and security of science and engineering while also keeping fundamental research open and collaborative. NSF seeks to address an age of new threats and challenges through close work with our partners in academia, law enforcement, intelligence and other federal agencies. By fostering transparency, disclosure and other practices that reflect the values of research integrity, NSF is helping to lead the way in ensuring taxpayer-funded research remains secure. To learn more, please visit [NSF's Research Security website](#).
- **FOSTERING INNOVATION** – Every year, NSF funds around 400 companies across nearly all technology areas to create prototypes and commercialize technologies. Learn more at [seedfund.nsf.gov](https://www.seedfund.nsf.gov).