



U.S. National
Science Foundation

GUAM

FY 2023 Fast Facts



\$4,386,000
Total NSF Awards to Guam



\$3,920,000
Invested in Fundamental Research in Guam



\$466,000
Invested in STEM Education in Guam

Top NSF-funded Academic Institutions for FY 2023

University of Guam
\$4,386,000

NSF By The Numbers

The U. S. National Science Foundation (NSF) is an [\\$9.06 billion](#) independent federal agency created by Congress in 1950 to promote the progress of science; to advance the national health, prosperity, and welfare; to secure the national defense. NSF's vital role is to support basic research and researchers who create knowledge that transforms the future.

DID YOU KNOW?

NSF has funded the work of **261** Nobel Prize winners over 75 years.



\$9.06B
FY 2024
Total Enacted

93%
Funds research, education and related activities



11K
Awards



1.9K
Institutions



353K
People

**Data represents FY 2023 Actuals unless otherwise indicated*



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Expanding the Frontiers of Science

Through NSF funding, the Multidisciplinary Analysis of Vaccination Games for Equity project at the **University of Guam** addresses the global health threat of vaccine inequity in the fight against emerging infectious diseases. The project aims to provide a comprehensive understanding of vaccination coverage and identify key drivers of vaccine uptake. This will reduce the risk of future pandemics by enabling targeted interventions to increase vaccine acceptance among vulnerable populations, in particular racial, ethnic and sexual minority and rural populations. The research will also help to address vaccine inequities in the United States that are currently disproportionately affecting minority subgroups and clinical subpopulations (for example, men with HIV infections). The project will combine expertise from mathematical epidemiology and social and behavioral sciences to (1) develop a general framework of vaccine uptake that incorporates individual, social and structural factors by analyzing a variety of secondary datasets; (2) collect primary survey data and use the framework to develop universal vaccine uptake (as well as vaccine refusal) models that are broadly applicable to monkeypox and future outbreaks; and (3) use traditional and modern economic models of individual decision-making under uncertainty.



STEM Education and Broadening Participation

Navigating Home, a project at the **University of Guam** backed by NSF funding, supports recent on- and off-island graduates from underrepresented groups in the geosciences who are originally from one of three U.S. territory hubs (Guam, Puerto Rico and the U.S. Virgin Islands). By placing these students in new marine and environmental science job opportunities, Navigating Home helps create an inclusive marine and environmental science research community that reflects the diversity of these islands. The goals of Navigating Home are to: (1) bring back, train and retain islanders who have bachelor's or master's degrees in the marine and environmental sciences and who are interested in being part of their home island's workforce; (2) strengthen partnerships between island-based universities and their local partners; (3) provide transdisciplinary training with science and community engagement; and (4) transform geoscience culture through innovative strategies and partnerships that will serve as model examples within and beyond the island communities in which they are based. Over five years, the project will support 68 fellows and 68 professionals from university and community partnering organizations in transdisciplinary geoscience enrichment opportunities.



Regional Innovation Engines

U.S. National Science Foundation Regional Innovation Engines (NSF Engines) Development Awards help organizations create connections and develop their local innovation ecosystem within two years to prepare a strong proposal for becoming a future NSF Engine. The program seeks regional teams rooted within industry, academia, government, nonprofits, civil society and communities of practice to catalyze and foster innovation ecosystems across the U.S. to advance critical technologies, address national and societal challenges, promote economic growth and job creation, spur sustainable regional innovation and nurture diverse talent.

To stay in the loop about future funding calls and opportunities to engage, [sign up for the NSF Engines newsletter](#).

EPSCoR

COMPETITIVE RESEARCH | Guam is one of 28 U.S. states or territories under the [NSF Established Program to Stimulate Competitive Research \(EPSCoR\)](#). **\$3,841,648** in awards have been made to Guam academic institutions through EPSCoR in FY 2023. For more information, visit Guam's EPSCoR state web page.



Learn More

CHIPS & SCIENCE – The CHIPS and Science Act's investments in the U.S. National Science Foundation will help the United States remain a global leader in innovation. Implementation of this legislation will be key to ensuring that ideas, talent and prosperity are unleashed across all corners of the nation. [For more information, please visit the NSF CHIPS and Science website.](#)

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 the NSF Research Security website.](#)

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