



U.S. National Science Foundation



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](https://nsf.gov/75years)



# HAWAII

## ● FAST FACTS



**\$60,200,000**

Total NSF Awards to Hawaii



**\$48,859,000**

Invested in Fundamental Research in Hawaii



**\$11,341,000**

Invested in STEM Education in Hawaii



**\$1,002,000**

Invested in Hawaii Businesses

## ● TOP NSF-FUNDED ACADEMIC INSTITUTIONS

University of Hawaii  
**\$53,309,000**

Hawaii Pacific University  
**\$2,106,000**

Chaminade University of Honolulu  
**\$678,000**

## ● 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"*



[www.nsf.gov](https://www.nsf.gov)



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

NSF funding supports researchers at the **University of Hawaii** who are developing artificial intelligence models that make predictions about health events, such as substance use and stress-related blood pressure spikes, using data from smartwatches and other wearables. The innovation of this project comes from training personalized models that learn exclusively from each person's wearable data. Recent advances in AI methods allow the researchers to train these models to understand each user's individual biosignal patterns related to heart rate, movement and other signal recordings using large amounts of unlabeled data that are recorded when the user wears the device. Using these advances, the researchers are refining the models to learn to predict relatively complex recurring health outcomes like stress and blood pressure spikes using many fewer labeled examples than what would have previously been necessary.

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

NSF provides support for the operation of R/V Kilo Moana, a vessel owned by the United States Navy and operated by **University of Hawaii** as part of the U.S. Academic Research Fleet (ARF). As the only ARF vessel based in the central North Pacific Ocean, Kilo Moana provides direct and vital access to deep ocean habitats, vibrant coral reefs, undersea volcanic terrains and some of the most isolated ecosystems in the world to U.S. researchers. A particular focus of research using Kilo Moana is the Hawaii Ocean Time-series (HOT) site at Ocean Station ALOHA, an important site for the long-term study of biogeochemistry, oceanography, climate and plankton ecology and microbiology processes in the North Pacific Ocean. The over 30-year-old HOT program stands as a landmark achievement in U.S. ocean research.

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

Led by the **University of Hawaii** system, the **University of Hawaii at Hilo, Chaminade University of Honolulu, the University of Guam** and the Texas Advanced Computing Center, an NSF Strengthening the Cyberinfrastructure Professionals Ecosystem project is enhancing cyberinfrastructure (CI) professional training for science research, education and practice in the Hawaii/Guam Pacific region. The project strengthens Hawaii-Pacific regional research capabilities by hiring CI professionals embedded at partner institutions and cultivating a workforce skilled in advanced CI technologies and methods. The research workforce is strengthened with more than 200 undergraduate students and 15 graduate students recruited across the regional institutions and directly trained in CI. The project also offers services, training, education and research programs to engage faculty, researchers and students in advanced CI, creating pathways for increased adoption and capacity and supporting the long-term growth of regional research in fields such as the life sciences, data science, environmental studies and engineering.

## COMPETITIVE RESEARCH

HAWAII is one of 28 U.S. states or territories under the NSF Established Program to Stimulate Competitive Research (EPSCoR). For more information, visit HAWAII'S [EPSCoR state web page](#).

## NCSES

The [National Center for Science and Engineering Statistics \(NCSES\)](#) 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, NCSES 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 example, in FY 2024, **Hawaii** invested **\$948,000,000** on research and development.

For more information on NSF's impact in your state, please contact NSF Office of Legislative and Public Affairs at [congressionalteam@nsf.gov](mailto: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://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://seedfund.nsf.gov).