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

NEVADA

FAST FACTS

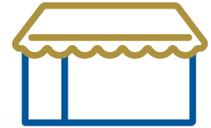**$39,572,000**
Total NSF Awards to Nevada

$36,035,000
Invested in Fundamental Research in Nevada

$3,537,000
Invested in STEM Education in Nevada

$20,000
Invested in Nevada Businesses

TOP NSF-FUNDED ACADEMIC INSTITUTIONS

University of Nevada, Reno
$14,726,000

Nevada System of Higher Education
$12,932,000

University of Nevada, Las Vegas
$9,319,000

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

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

One of the grand challenges in biology is understanding how organisms respond to environmental change. Specifically, while genome sequencing has revealed substantial variation in the number of copies of ecologically important genes among individual genomes — wherein some individuals have very few copies of a gene while others have many — very little is known about how gene copy number variation is maintained in the wild and how it influences survival and reproduction. To advance the understanding of this phenomenon, a project at the **University of Nevada, Reno** is conducting research aimed at discovering how gene copy number variation at genes that aid in processing ingested toxins determines: (1) individual capacity to process toxins in food plants; (2) individual survival and reproduction in the wild; and (3) the ability of populations to persist in the face of environmental change. The students trained through this NSF Evolutionary Processes Cluster award will be uniquely positioned to pursue integrative careers with the skills to identify and manage the mechanisms that facilitate or hinder population persistence.

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

Across the western U.S., populations and resource managers increasingly rely on sensor networks operated by earth and environmental scientists to provide crucial nearly real-time information on wildfire, water, climate and ecology. Study sites in these fields are spread across remote, rugged and extreme environments, creating major challenges in installation, maintenance and digital connectivity. Field researchers often work alone or in small teams focusing on specific science questions, without access to advanced technology platforms or engineering to scale or accelerate their observational data approach. Recognizing opportunity, the Wild-area-networks Wireless Enabling Science Team (WildWEST) project brings together the **Nevada System of Higher Education's** NevadaNet, the Utah Education and Telehealth Network and Arizona's Sun Corridor Network to transform the value of traditionally ad hoc observational science through the facilitation of systems design, integration and connectivity. Funded under the NSF Strengthening the Cyberinfrastructure Professionals Ecosystem program, the project team collectively designs and implements end-to-end data transport solutions for science in remote and difficult environments. In partnership with key regional science collaborators, WildWEST is establishing a field network test bed across state boundaries to foster novel team science opportunities in diverse fields of study.

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

Teaching computer science skills at an early age is vital to developing an advanced STEM workforce; however, current computer science education is focused primarily on older, secondary school students. To address this challenge, an NSF Computer Science for All project at the **University of Nevada, Las Vegas** is developing artificial intelligence curricula utilizing the advantages of educational robotics for grades four and five students in multilingual classrooms. It also provides professional development for teachers to implement these integrated units and to conduct educational research. 25 elementary teachers and approximately 600 elementary school students in Clark County, Nevada, will be directly impacted by this project. The language-rich curricular resources generated by the project will be disseminated for adaptation and use by other districts nationwide and will serve as a model for designing linguistically relevant integrated AI curricula.

COMPETITIVE RESEARCH

NEVADA is one of 28 U.S. states or territories under the NSF Established Program to Stimulate Competitive Research (EPSCoR). For more information, visit **NEVADA'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, **Nevada** invested **$1,407,000,000** 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.

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.

- **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.