National Science Foundation

NEVADA

FY 2022 Fast Facts

$36,970,000
Total NSF Awards to Nevada

$29,232,000
Invested in Fundamental Research in Nevada

$7,738,000
Invested in STEM Education in Nevada

Top NSF-funded Academic Institutions for FY 2022

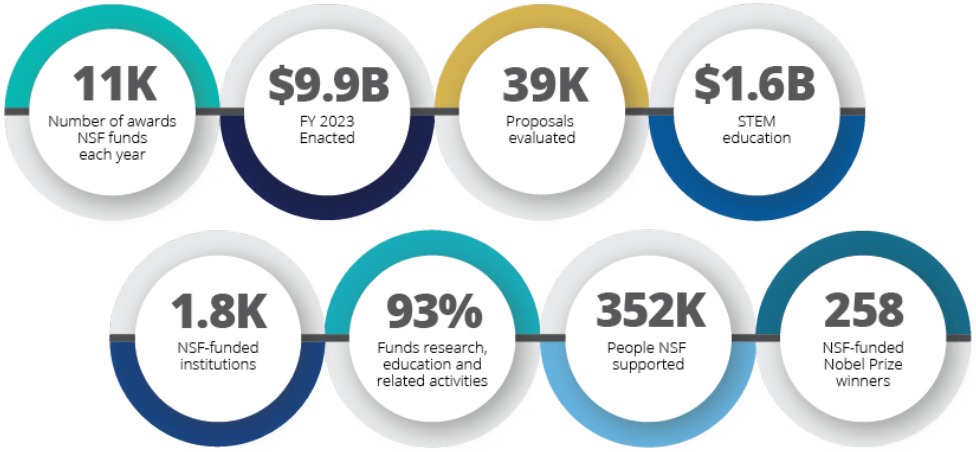
University of Nevada - Reno
$23,145,094

University of Nevada - Las Vegas
$7,848,991

Desert Research Institute
$1,208,374

NSF By The Numbers

The National Science Foundation (NSF) is a $9.5 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.



Data represents FY 2022 Actuals unless otherwise indicated.

Expanding the Frontiers of Science

Metabolic and anatomical adaptations that improve water-use efficiency and drought and salinity stress tolerance in plants are among the most widespread and successful mitigation adaptations in the plant kingdom. With funding from NSF's Biological Sciences Directorate, researchers at the **University of Nevada** are studying these adaptations to design more climate-resilient crops. The proposed synthetic gene circuits developed under this project can be applied widely to other food, feed, fiber and biofuel crops to improve their productivity, water-use efficiency and drought/salinity stress tolerance under the hotter and drier environments of the future. Also provided under this project will be training to prepare an increasingly diverse scientific workforce through student recruitment targeting historically underrepresented groups in science, technology, engineering and mathematics. Increases in drought severity and duration will significantly slow the rate of crop productivity needed to satisfy projected crop demands, thus threatening global food security. Therefore, innovative synthetic biology approaches for improving water-use efficiency in crops are essential.

STEM Education

As large manufacturers continue to move into the Reno, Nevada, area, there is a growing need for skilled technicians. Filling this demand is critical to support the success of the regions advanced manufacturing industry and to support the region's economic development goal. **Truckee Meadows Community College** seeks to address this need by increasing access of high school students to the college's dual enrollment program in advanced manufacturing. A project supported by NSF's Advanced Technological Education program provides greater access to academic pathways leading to an associate degree in advanced manufacturing and helps students learn the critical technical skills needed to be hired, stay employed and advance in a technical career. Access to an existing dual enrollment curriculum in advanced manufacturing will also be expanded to more high schools in the region. The curriculum centers on skills to increase employability and includes instruction in collaboration and teamwork, communication, critical and creative thinking, leadership, self-management and social responsibility.

Regional Innovation Engines

The NSF Engines program envisions fostering flourishing regional innovation ecosystems across the country, providing a unique opportunity to spur economic growth in regions that have not fully participated in the technology boom of the past few decades. The NSF Engines program uniquely harnesses the nation's science and technology research and development enterprise and regional-level resources. NSF Engines can catalyze robust partnerships rooted in scientific and technological innovation to positively impact the economy within a geographic region, address societal challenges, and advance national competitiveness. Find potential NSF engines in your state.

EPSCoR

COMPETITIVE RESEARCH | Nevada is one of 28 U.S. states or territories under NSF's Established Program to Stimulate Competitive Research (EPSCoR). Over **$6,140,000** in awards have been made to Nevada academic institutions through EPSCoR in FY 2022. For more information, visit Nevada's EPSCoR state web page.

NCSES

According to the National Center for Science and Engineering Statistics (NCSES), which is housed in NSF, 24% of science, engineering and health doctorates conferred in Nevada are made in engineering. Visit Nevada's science and engineering state profile to learn more!

32.29%	of **Nevada's** higher education degrees are concentrated in S&E fields.
2.75%	of **Nevada's** workforce are employed in S&E occupations.
3.79%	of **Nevada's** total employment is attributable to knowledge - and technology - intensive industries.

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 NSF's 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 NSF's Research Security website.

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