NEVADA

- **FY 2021 Fast Facts**
  - $29,940,000 Total NSF Awards to Nevada
  - $26,281,000 Invested in Fundamental Research in Nevada
  - $3,658,000 Invested in STEM Education in Nevada

- **Top NSF-funded Academic Institutions for FY 2021**
  - $17,086,000 University of Nevada-Reno
  - $8,724,000 University of Nevada - Las Vegas

- **NSF By The Numbers**
  The National Science Foundation (NSF) is an $8.8 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.

  - 93% Funds research, education and related activities
  - $8.8B FY 2022 Enacted
  - 43,600 Proposals evaluated
  - 2,000 NSF-funded institutions
  - 11,300 Number of awards NSF funds each year
  - 318K People NSF supported
  - $1.5B STEM education
  - $181M To seed public/private partnerships
  - 253 NSF-funded Nobel Prize winners
NSF-funded COVID-19 Research and Recovery

Emerging infectious diseases are a global concern. Disease outbreaks can be devastating for host populations but also provide an opportunity to address gaps in knowledge about how diseases work. Led by the University of Nevada, this NSF Faculty Early Career Development project will combine cutting-edge experiments with field studies on host defense mechanisms in three species of amphibians. A team of researchers will determine the role of skin secretions in a host's defense using immunosuppression treatments and pathogen exposure experiments. In addition, the project will implement a program that will launch 20 young women in their pursuit of higher education in scientific fields. The education and outreach activities will be an integral part of the proposed project, helping to increase awareness of the potential of young women in science, the loss of amphibian biodiversity, and the importance of advancing the understanding of infectious disease.

STEM Education

As large manufacturers continue to move into the Reno, Nevada, area, there is a growing need for skilled technicians. With support from NSF's Advanced Technological Education program, Truckee Meadows Community College intends to address this need by increasing access of high school students to the college's dual enrollment program in advanced manufacturing and by developing and using augmented reality and simulated lab experiences at the high schools. In addition, a new employability skills curriculum will be developed and integrated into advanced manufacturing courses to better prepare students for success in the workplace.

Research Driving Innovation

Destruction caused by wildfires in the U.S. has significantly increased in the past two decades. Researchers at the University of Nevada – Reno are creating an overarching computational platform for wildfire risk management at multiple space and time scales. This vision will be accomplished by creating and integrating techniques in the fields of data analytics, computational modeling and model-based inference. The objective is to develop scientific foundations for a live digital platform that evolves as new data are added. The data will dynamically update pre-ignition fire risks in the long-term (seasons/months ahead) and short-term (weeks/days ahead) at regional and community scales and help in predicting post-ignition fire behavior in nearly real time at the fire front. Once developed, the computational platform will increase the efficiency of wildfire management processes by providing actionable information to decision-makers for pre-ignition risk mitigation and post-ignition emergency response management. Involvement of key stakeholders and utility companies, preparation of future workforce, and K-12 outreach programs are integral parts of the project.

EPSCoR

COMPETITIVE RESEARCH | Nevada is one of 28 U.S. states or territories under NSF’s Established Program to Stimulate Competitive Research (EPSCoR). Over $3,620,000 in awards have been made to Nevada academic institutions through EPSCoR in FY 2021. 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, 19% of Science, Engineering and Health doctorates conferred in Nevada are made in Engineering.

- 2.75% of Nevada’s workforce are employed in S&E occupations.
- 31.50% of Nevada's higher education degrees are concentrated in S&E fields.

Learn More


NSF FACT SHEETS – NSF provides fact sheets about the agency and its bold investments in basic research. These fact sheets profile NSF investments in research across all fields of science and engineering, including quantum, artificial intelligence, and advanced manufacturing; and the NSF-supported research and computing infrastructure powering the U.S. response to COVID-19.

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.