National Science Foundation

NEW MEXICO

FY 2022 Fast Facts

$54,538,000
Total NSF Awards to New Mexico

$44,679,000
Invested in Fundamental Research in New Mexico

$9,859,000
Invested in STEM Education in New Mexico

$2,304,000
Invested in New Mexico Businesses

Top NSF-funded Academic Institutions for FY 2022

University of New Mexico	New Mexico State University	New Mexico Institute of Mining & Technology
$31,788,749	$8,541,191	$4,184,953

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.

11K Number of awards NSF funds each year

$9.9B FY 2023 Enacted

39K Proposals evaluated

$1.6B STEM education

1.8K NSF-funded institutions

93% Funds research, education and related activities

352K People NSF supported

258 NSF-funded Nobel Prize winners

Data represents FY 2022 Actuals unless otherwise indicated.

Expanding the Frontiers of Science

Global food supply and security are at risk due to an increasing population, climate change, diminishing natural resources and limited availability of land. In agriculture, the primary challenge has been how to be more productive with less suitable land for crop production, less water and labor shortages. Arid lands, which cover much of the Western U.S., are expected to expand as the climate changes. Artificial intelligence can bring a paradigm shift in how the economic and environmental challenges of farming and ranching in arid lands can be addressed. An NSF Research Traineeship award to **New Mexico State University** will enable the creation of a coordinated graduate training program, called Artificial Intelligence for Arid Land Agriculture, to prepare the next generation of scholars and practitioners by teaching graduate students how to bridge the divides between AI and agriculture. AI can help farmers operate with greater efficiency and precision through the assistance of autonomous systems and the support of intelligent software systems to aid in decision-making. AI-driven solutions will not only enable farmers to be more productive, but they will also improve quality and ensure a faster path to market for crops and livestock.

STEM Education and Broadening Participation

The Department of Labor estimates that more than a million computing-related job openings will be available in the U.S. by 2024. It also estimates that more than two thirds of these jobs could go unfilled due to an insufficient number of qualified applicants. Addressing the underrepresentation of women and other underrepresented groups in the computing workforce will help to close this predicted employment gap. Evidence suggests that the resulting increased diversity of the workforce can also lead to increased productivity and better problem-solving in the workplace. With support from NSF's Advanced Technological Education program, researchers at **Central New Mexico Community College** are investigating how to recruit, retain and prepare women and underrepresented groups for careers in computer information systems. Project efforts focus on the entire pipeline, from high school teachers and students to college faculty and students in CIS programs. The project leverages multiple approaches including providing high school students with CIS skills workshops, paid internships and courses that provide dual enrollment credit. It also trains college faculty to better support the educational journeys of all their students using customized curriculum.

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 | New Mexico is one of 28 U.S. states or territories under NSF's Established Program to Stimulate Competitive Research (EPSCoR). Over **$6,930,000** in awards have been made to New Mexico academic institutions through EPSCoR in FY 2022. For more information, visit New Mexico's EPSCoR state web page.

NCSES

According to the National Center for Science and Engineering Statistics (NCSES), which is housed in NSF, New Mexico ranks 12th in the nation for federal R&D obligations. Visit New Mexico's science and engineering state profile to learn more!

33.86%	of **New Mexico's** higher education degrees are concentrated in S&E fields.
4.96%	of **New Mexico's** workforce are employed in S&E occupations.
5.57%	of **New Mexico'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.