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

IDAHO

● FAST FACTS

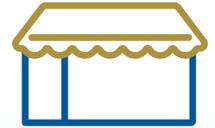**$41,628,000**
Total NSF Awards to Idaho

$34,102,000
Invested in Fundamental Research in Idaho

$7,526,000
Invested in STEM Education in Idaho

$275,000
Invested in Idaho Businesses

● TOP NSF-FUNDED ACADEMIC INSTITUTIONS

University of Idaho
$24,804,000

Boise State University
$14,497,000

Idaho State University
$1,541,000

● 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

State Fact Sheet 2025 GR

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

Intensifying wildfires are threatening vital forest ecosystems. While many tree and microbial species have evolved traits that make them resilient to and often benefit from fire, many forests are failing to recover, and we don't know why. The Embedding Molecular Biology in Ecosystem Research (EMBER) Institute at the **University of Idaho**, supported by NSF funding, is identifying key traits and variables that govern how biological communities respond to and interact with compounding environmental stress. A team of scientists with expertise spanning multiple disciplines use ecosystem modeling and manipulate fire and drought conditions at an experimental field site to transform our understanding of fundamental controls on forest processes. The institute is also partnering with the Coeur d'Alene tribe and the Bonneville Environmental Foundation to establish an Indigenous Innovation Lab for tribal and rural students, develop a unique teacher fellows training program and engage with community members of all backgrounds. Expected outcomes of these efforts include determining thresholds for forest recovery, predicting how stress impacts the forest carbon sink, training the next generation of scientists to transcend disciplines for use-inspired solutions to climate change and developing an effective science communication framework to inform forest policy.

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

Recent advances in generative artificial intelligence provide a unique opportunity to augment research administrators' capabilities. Therefore, a project at the **University of Idaho**, supported by the NSF GRANTED program, aims to significantly enhance post-award research administration by developing open-source tools that integrate artificial intelligence and data science. By creating accessible, innovative tools to automate manual processes, this project levels the playing field for all institutions of higher education. Importantly, the project features an independent external evaluator to ensure the research administration community can learn from both successes and challenges, a critical approach given the rapid advancements in AI capabilities.

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

Through the NSF Robert Noyce Teacher Scholarship program, **Boise State University** is leading a project to ensure that rural schools in Idaho have access to more highly prepared STEM teachers. Partnering institutions include several rural Idaho high-need school districts (Blaine County, Caldwell, Hansen, Kimberly, Wendell and Twin Falls), the Idaho Business for Education organization, the Idaho Workforce Development Council and the Idaho STEM Action Center Project. Through this project, 16 teachers, referred to as teaching fellows, will be provided a full tuition scholarship to earn a Master in Teaching degree and an Idaho teaching 6-12 certificate via Boise State University's College of Education. The project employs a new place-based residency strategy which aims to integrate coursework with classroom experiences, allowing fellows to apprentice under the constant guidance of an experienced mentor teacher. After completing teacher certification, they will receive annual salary supplements during their first four years of teaching.

COMPETITIVE RESEARCH

IDAHO is one of 28 U.S. states or territories under the NSF Established Program to Stimulate Competitive Research (EPSCoR). For more information, visit **IDAHO'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, **Idaho** invested **$3,059,000,000** 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.