National Science Foundation

MONTANA

FY 2022 Fast Facts

$42,732,000
Total NSF Awards to Montana

$27,866,000
Invested in Fundamental Research in Montana

$14,866,000
Invested in STEM Education in Montana

$1,378,000
Invested in Montana Businesses

Top NSF-funded Academic Institutions for FY 2022

Montana State University	$18,523,489
University of Montana	$13,373,049
Salish Kootenai College	$3,453,208

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

With support from NSF's Major Research Infrastructure program, **Montana Technological University** will acquire, maintain and operate an advanced electron microscope. The project's multifunctional electron microscope is a highly sensitive instrument ideal for both life sciences and materials research, and will advance interdisciplinary research, education and outreach in biology, chemistry, geochemistry, mechanical engineering, environmental engineering and geology. The project will strengthen doctoral programs in materials science and earth science and engineering, enable undergraduate research, support state-wide public service and characterization performed by the campus's Montana Bureau of Mines and Geology, and inspire K-12 students and teachers served by the Clark Fork Watershed Education Program. The project will significantly benefit state-wide outreach activities and underrepresented groups in Montana, including students from rural, economically disadvantaged areas, and Native American communities. The microscope's images will engage students ranging from kindergarten to graduate education by visualizing and scientifically characterizing viruses, minerals, nanomaterials, environmental damage and restoration. Exposure to these electron microscopy capabilities will increase student recruitment and retention, increase entry to science, technology, engineering, and mathematics careers, and strengthen the STEM enterprise in Montana.

STEM Education and Broadening Participation

NSF's Eddie Bernice Johnson INCLUDES Initiative is a comprehensive, national initiative to enhance U.S. leadership in science, technology, engineering, and mathematics discovery and innovation, focused on NSF's commitment to ensuring accessibility and inclusivity in STEM fields. Led by the **University of Montana**, the Cultivating Indigenous Research Communities for Leadership in Education and STEM, or CIRCLES, Alliance builds on the collaborative efforts of an existing partnership among six EPSCoR states — Idaho, Montana, New Mexico, North Dakota, South Dakota and Wyoming — to address the severe underrepresentation of American Indian and Alaska Native, AI/AN, students in STEM disciplines and within the STEM workforce. Through intentional collaboration with STEM and traditional knowledge holders, including AI/AN students, faculty and staff, and Indigenous communities, this project aims to develop and sustain a national model for centering Indigenous, culturally responsive educational approaches and practices in STEM to enhance inclusivity, increase participation and build capacity among AI/AN STEM educators and other professionals.

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 | Montana is one of 28 U.S. states or territories under NSF's Established Program to Stimulate Competitive Research (EPSCoR). Over **$8,630,000** in awards have been made to Montana academic institutions through EPSCoR in FY 2022. For more information, visit Montana's EPSCoR state web page.

NCSES

According to the National Center for Science and Engineering Statistics (NCSES), which is housed in NSF, 48% of science, engineering and health doctorates conferred in Montana are made in life sciences. Visit Montana's science and engineering state profile to learn more!

41.32%	of **Montana's** higher education degrees are concentrated in S&E fields.
3.95%	of **Montana's** workforce are employed in S&E occupations.
2.81%	of **Montana'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.