U.S. National Science Foundation

UTAH

FY 2023 Fast Facts

$78,757,000
Total NSF Awards to Utah

$67,493,000
Invested in Fundamental Research in Utah

$10,874,000
Invested in STEM Education in Utah

$5,014,000
Invested in Utah Businesses

Top NSF-funded Academic Institutions for FY 2023

University of Utah	Utah State University	Brigham Young University
$48,232,000	**$16,006,000**	**$5,377,000**

NSF By The Numbers

The U. S. National Science Foundation (NSF) is an $9.06 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.

DID YOU KNOW? NSF has funded the work of **261** Nobel Prize winners over 75 years.

$9.06B
FY 2024 Total Enacted

93%
Funds research, education and related activities

11K
Awards

1.9K
Institutions

353K
People

**Data represents FY 2023 Actuals unless otherwise indicated*

Expanding the Frontiers of Science

The U.S.-Canada Center on Climate-Resilient Western Interconnected Grid brings together an international team of researchers to assess the risk of extreme events for power grids using state-of-the-art modeling tools. Jointly funded by the U.S. National Science Foundation and the Natural Science and Engineering Research Council of Canada, the center is co-led by the **University of Utah** and the University of Calgary. The center pursues four major research priorities including (1) creating customized models for risk quantification and forecasting of regional extreme disturbances to better prepare for potential disruptions to power grids; (2) establishing a comprehensive understanding of community needs, capacities and adaptation processes towards climate-driven extreme disturbances, to develop effective climate-resilience strategies; (3) building a federated cyberinfrastructure for collecting, governing and sharing climate and grid data, to facilitate collaboration and information exchange among stakeholders; and (4) develop new models for short-term operation and long-term planning of power systems. The center also supports undergraduate and graduate students at the University of Utah and The University of New Mexico and other professionals in California and Nevada and performs outreach to local communities in the western U.S. (2330582)

STEM Education and Broadening Participation

The NSF Scholarships in Science, Technology, Engineering, and Mathematics program is contributing to the national need for well-educated scientists, mathematicians, engineers and technicians by supporting the retention and graduation of high-achieving, low-income students with demonstrated financial need at **Utah Valley University**. Over its six-year duration, the project will fund scholarships to at least 36 unique full-time students who are pursuing bachelor's degrees in civil engineering and mechanical engineering. First-year students may receive up to five years of scholarship support and transfer students up to three years. Faculty mentors will help scholars create an individual education and development plan that will guide mentoring efforts, foster student growth and increase student outcomes for persistence, completion and career preparation. Industry partners will further enrich the project by providing mentors, guest speakers, internships and capstone projects. This scholarship project will allow low-income students to benefit from and contribute to the dynamic growth and catalytic impact of the mechanical and civil engineering professions in this region and beyond. (2322613)

Regional Innovation Engines

NSF Regional Innovation Engines (NSF Engines) represent one of the single largest broad investments in place-based research and development in the nation's history, uniquely placing science and technology leadership as the central driver for regional economic competitiveness. Serving the entirety of Utah, the **NSF Engine: Southwest Sustainability Innovation Engine**, led by Arizona State University, aims to equitably transform water security, renewable energy and net carbon emissions in the region by incentivizing new technology and governance, expanding infrastructure and capacity for knowledge translation, and preparing a diverse and highly skilled workforce. (2315479)

NCSES

According to the NSF National Center for Science and Engineering Statistics (NCSES), which is housed in NSF, 26% of science, engineering and health doctorates conferred in Utah are made in life sciences. Visit Utah's science and engineering state profile to learn more!

21.55% of **Utah's** higher education degrees are concentrated in S&E fields.

5.74% of **Utah's** workforce is employed in S&E occupations.

8.51% of **Utah'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 the NSF 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 the NSF Research Security website.

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