National Science Foundation

VERMONT

FY 2022 Fast Facts

$13,452,000
Total NSF Awards to Vermont

$12,724,000
Invested in Fundamental Research in Vermont

$729,000
Invested in STEM Education in Vermont

$1,512,000
Invested in Vermont Businesses

Top NSF-funded Academic Institutions for FY 2022

University of Vermont	$10,830,781
Middlebury College	$522,542
Norwich University	$452,720

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

Seven academic institutions within Vermont, led by the **University of Vermont and State Agricultural College**, are leveraging existing and new investments in technology, computational resources and human resources toward developing predictive and decision-making tools for improving drinking-water quality and protecting natural and human infrastructure in the face of increasing extreme weather events. Physical, biological and social scientists and engineers are collaborating in interdisciplinary teams to understand and model the Lake Champlain Basin as a complex hydro-ecological-social system. Team members develop and provide hands-on educational opportunities and science, technology, engineering and mathematics training for middle school, high school, and undergraduate students, and support research training for undergraduate and graduate students and postdoctoral researchers. Early career professional development targets graduate students, postdoctoral researchers and early career faculty to further improve the STEM workforce within Vermont. This award was funded from NSF's EPSCoR program.

STEM Education and Broadening Participation

Norwich University, a designated National Center of Academic Excellence in Cyber Defense Education and Digital Forensics, will continue to expand its participation in the CyberCorps® Scholarship for Service (SFS) program to prepare highly qualified cybersecurity professionals for entry into the government workforce. Norwich SFS students develop a thorough commitment to a multidisciplinary perspective on computer security, with awareness of integrating technology with human factors. The program emphasizes internships and activities in the academic year, with a strong mentoring component that promotes a cooperative culture that scholars can leverage as they transition into the workplace. The SFS program funds projects that address cybersecurity education and workforce development, including funding to award scholarships to students in cybersecurity. In return for their scholarships, recipients will work after graduation for a federal, state, local or tribal government organization in a position related to cybersecurity for a period equal to the length of the scholarship.

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 | Vermont is one of 28 U.S. states or territories under NSF's Established Program to Stimulate Competitive Research (EPSCoR). Over **$2,920,000** in awards have been made to Vermont academic institutions through EPSCoR in FY 2021. For more information, visit Vermont's EPSCoR state web page.

NCSES

According to the National Center for Science and Engineering Statistics (NCSES), which is housed in NSF, 40% of science, engineering and health doctorates conferred in Vermont are made in life sciences. Visit Vermont's science and engineering state profile to learn more!

43.54%	of **Vermont's** higher education degrees are concentrated in S&E fields.
4.46%	of **Vermont's** workforce are employed in S&E occupations.
6.72%	of **Vermont'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.