WISCONSIN

● FY 2021 Fast Facts

$115,820,000  
Total NSF Awards to Wisconsin

$99,093,000  
Invested in Fundamental Research in Wisconsin

$16,727,000  
Invested in STEM Education in Wisconsin

$2,635,000  
Invested in Wisconsin startups

● Top NSF-funded Academic Institutions for FY 2021

$91,838,005  
University of Wisconsin at Madison

$7,016,255  
University of Wisconsin at Milwaukee

$2,999,689  
Mount Mary University

● NSF By The Numbers

The National Science Foundation (NSF) is an $8.8 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.

93%  
Funds research, education and related activities

$8.8B  
FY 2022 Enacted

43,600  
Proposals evaluated

2,000  
NSF-funded institutions

11,300  
Number of awards NSF funds each year

318K  
People NSF supported

$1.5B  
STEM education

$181M*  
To seed public/private partnerships

253  
NSF-funded Nobel Prize winners

Data represents F 2021 ctuas unless otherwise indicated 
Corresponds to NSF investments initiated in F 2021 and spanning utipe years
NSF-funded COVID-19 Research and Recovery

A worldwide effort has been mobilized to understand the properties of all 29 SARS-CoV-2 proteins with experimental and computational techniques. Researchers at the University of Wisconsin-Madison are using nuclear magnetic resonance experiments to inform efforts to model viral assembly and genome replication and provide vital insights into critical stages of the viral life cycle. The research uses solid-state nuclear magnetic resonance and in vitro assays to examine the structure, dynamics and membrane interaction of nsp8 and membrane proteins to provide insight into how they induce budding and assembly of the coronavirus membrane envelope. Data from these studies will be rapidly disseminated through public repositories where it can be accessed by the scientific community to leverage for maximal benefit. This project will support graduate student and post doctoral training in nuclear magnetic resonance at the National Magnetic Resonance Facility at Madison, leveraging collaborative science to address pressing societal needs.

STEM Education & Broadening Participation

With support from NSF’s Improving Undergraduate STEM Education: Hispanic-Serving Institutions Program, Mount Mary University, a women’s HSI in Milwaukee, aims to graduate digitally literate women to increase the competitiveness of the nation’s technical workforce. Through faculty development, curriculum redesign, undergraduate research and communication with academic and industry partners, the project will build capacity to prepare students for the technology-driven workforce and create a new human-technology interface degree program to attract and empower diverse women for full inclusion in the digital STEM workforce.

Research Driving Innovation

It is now well-established that there is a critical need for researchers who can think creatively to solve problems in data science in various interdisciplinary fields. Further, there is a scarcity of workforce and opportunities to train the next generation of researchers to tackle the problems in data science. To address the scarcity, Marquette University has established a Research Experiences for Undergraduates Site focused on Data Science Across Disciplines, which is designed to immerse undergraduate students in an interdisciplinary research-intensive training and mentoring program. Students will be exposed to a variety of data science research projects, starting with a 3-day introductory boot camp. The students will then participate in data science research in different domains such as health care, social science, and exercise science, where they will begin to apply abstract concepts learned in the classroom to applications that will help them seek either industry careers or graduate degrees in the field. Students will also serve as peer mentors and brand ambassadors for data science research at their home institution to bring more awareness of the field.

Infrastructure

The NSF Center for Sustainable Nanotechnology at the University of Wisconsin-Madison seeks to understand how nanoparticles, particles that are at least 10,000 times smaller than the width of a human hair, transform and interact in and with water and biological systems.

NCSES

According to the National Center for Science and Engineering Statistics (NCSES), which is housed in NSF, Wisconsin ranks 15th in the nation for Higher education R&D performance. Visit Wisconsin’s science and engineering state profile to learn more!

- 5.01% of Wisconsin’s workforce are employed in S&E occupations.
- 35.03% of Wisconsin’s higher education degrees are concentrated in S&E fields.

Learn More

COVID RELIEF - Congress provided NSF with funding to prevent, prepare for, and respond to COVID-19 in the CARES Act of 2020 and the American Rescue Plan (ARP) Act of 2021. For more information on NSF-funded COVID-19 research and recovery, visit NSF’s award database for CARES Act and ARP awards, and NSF’s Toolkit for COVID funding updates.

NSF FACT SHEETS – NSF provides fact sheets about the agency and its bold investments in basic research. These fact sheets profile NSF investments in research across all fields of science and engineering, including quantum, artificial intelligence, and advanced manufacturing; and the NSF-supported research and computing infrastructure powering the U.S. response to COVID-19.

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.