FY 2021 Fast Facts

- **$63,744,000** Total NSF Awards to Missouri
- **$54,226,000** Invested in Fundamental Research in Missouri
- **$9,519,000** Invested in STEM Education in Missouri
- **$2,463,000** Invested in Missouri startups

Top NSF-funded Academic Institutions for FY 2021

- **$19,812,000** Washington University
- **$12,861,000** University of Missouri-Columbia
- **$7,189,000** Missouri S&T

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 FY 2021 actuals unless otherwise indicated.
Corresponds to NSF investments initiated in FY 2021 and spanning multiple years.
**NSF-funded COVID-19 Research and Recovery**
The COVID-19 virus has been statistically linked to specific medical disorders connected to the brain and nervous system. Although in the past, a fraction of severe acute respiratory syndrome and Middle East respiratory syndrome patients have been shown to have anxiety and other neurological disorders, the scale of the coronavirus pandemic is another order of magnitude and the reasons for neurological disorders among COVID-19 patients in the U.S. and other countries are not clear. In this NSF-funded project, researchers from Washington University will develop a mathematical model to understand the size and complexity of the association between brain deterioration and COVID-19 in the U.S.

**STEM Education**
Through an NSF Scholarships in Science, Technology, Engineering, and Mathematics program award, Webster University is supporting the retention and graduation of high-achieving transfer students with financial need as they pursue bachelor’s degrees in chemistry and biology. The project focuses on recruiting transfer students from local and regional community colleges and expanding academic and student support systems that have proven effective in decreasing time to graduation and in building collaborations with industry partners. Best practices will be shared with institutions interested in attracting and graduating students transferring from community colleges and majoring in STEM.

**Research Driving Innovation**
With the growing ubiquity of smartphones and other mobile devices, image sharing is gaining increasing popularity in social networks. Privacy protection has become a crucial issue that must be addressed. While many social media platforms allow users to set privacy preferences, these are rarely sufficient due to the limitations of the options, complexity of the problem, and the tedious nature of privacy configuration. Through an NSF Secure and Trustworthy Cyberspace award, researchers at the University of Missouri-Columbia aim to design an intelligent and automatic broad-spectrum image protection system that offers provable privacy guarantees for multiple parties involved in social image sharing while maintaining image quality. A range of educational activities will also be carried out including curriculum development, professional training for college students, and outreach to K-12 teachers and students, with an emphasis on engaging underrepresented groups in STEM fields.

**Infrastructure**
The NSF Industry/University Cooperative Research Center for Big Learning at the University of Missouri-Kansas City seeks to create state-of-the-art deep learning methodologies and technologies and enable intelligent applications, transforming broad domains such as business, health care, Internet of Things and cybersecurity.

**NCSES**
According to the National Center for Science and Engineering Statistics (NCSES), which is housed in NSF, 31% of Science, Engineering and Health doctorates conferred in Missouri are made in Life sciences.

- **4.65%** of Missouri’s workforce are employed in S&E occupations.
- **26.88%** of Missouri’s higher education degrees are concentrated in S&E fields.

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**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.