MARYLAND

**FY 2021 Fast Facts**

- **$382,696,000** Total NSF Awards to Maryland
- **$349,092,000** Invested in Fundamental Research in Maryland
- **$29,741,000** Invested in STEM Education in Maryland
- **$10,669,000** Invested in Maryland startups

**Top NSF-funded Academic Institutions for FY 2021**

- **$61,597,000** University of Maryland - College Park
- **$44,241,000** Johns Hopkins University
- **$12,585,000** University of Maryland Baltimore County

**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.
NSF-funded COVID-19 Research and Recovery

The rapid spread of COVID-19 has severely impacted the lives of billions of people around the world and put strain on the health care systems due to the large number of cases and the risk of infection imposed on health care workers. Researchers at the University of Maryland - Baltimore County are developing low-cost and effective, minimal contact, early-screening tools for detection, treatment and prevention of the spread of the disease. The synthetic data generated in this project will allow researchers to develop newer models for early screening of COVID-19 and proactively builds resources to help the medical community be better prepared in early stages of future diseases with pandemic potential.

STEM Education & Broadening Participation

Through an NSF Historically Black Colleges and Universities - Research Infrastructure for Science and Engineering, or HBCU-RISE, award, Bowie State University will establish a High-Performance Intelligent Data-Science Institute, serving doctoral candidates enrolled in the computer science doctoral program. The institute will address the national need for professionals and academics in the field of computer science and will enhance the diversity of professionals by increasing the number of underrepresented minority students and women who complete graduate programs and attain a doctorate in computer science. HBCU-RISE supports the development of research capabilities at HBCUs.

Research Driving Innovation

With science currently undergoing a quantum revolution, NSF is driving large-scale investments into Quantum Leap Challenge Institutes that further the understanding of basic quantum phenomena, fundamental discoveries that will translate into transformative technologies. The University of Maryland - College Park leads the Institute for Robust Quantum Simulation, which aims to develop quantum systems and develop the methods and tools for large-scale quantum simulators that will allow for quantum computation. Researchers will also create outreach and education programs that engage diverse groups of students in quantum science, introduce cross-disciplinary undergraduate specializations in quantum information, and provide quantum information training for postgraduates and professionals.

Infrastructure

The National Ecological Observatory Network (NEON) Maryland is home to the Smithsonian Environmental Research Center NEON site. NEON comprises terrestrial, aquatic, atmospheric and remote-sensing measurement infrastructure and cyberinfrastructure that deliver standardized, calibrated data to the scientific community through a single, openly accessible data portal. NEON infrastructure is geographically distributed through 81 sites across the United States, including Alaska, Hawaii and Puerto Rico, and will generate data for ecological research over a 30-year period.

NCSES

According to the National Center for Science and Engineering Statistics (NCSES), which is housed in NSF, Maryland ranks 1st in the nation for Federal R&D obligations. Visit Maryland’s science and engineering state profile to learn more!

- 8.31% of Maryland’s workforce are employed in S&E occupations.
- 43.41% of Maryland’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.