OKLAHOMA FACT SHEET

FY 2020 FAST FACTS

$37,208,000
Total NSF awards to Oklahoma

$34,883,000
Invested in fundamental research in Oklahoma

$2,325,000
Invested in STEM education in Oklahoma

$284,000
Invested in Oklahoma startups through NSF’s small business program

TOP NSF-FUNDED ACADEMIC INSTITUTIONS FOR FY 2020

$20,021,000
University of Oklahoma

$12,002,000
Oklahoma State University

$1,580,000
University of Tulsa

NSF BY THE NUMBERS

The National Science Foundation (NSF) is an $8.5 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.
NSF-FUNDED RESEARCH FIGHTING COVID-19

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 Act of 2021. For more information on NSF’s COVID research, visit NSF’s award database and COVID funding reports.

COVID-19 RESEARCH SPOTLIGHT | In order to respond more effectively to COVID-19, researchers at Oklahoma State University are creating a reality-based, simulated environment to support the training of first responders in hospitals and larger communities in the U.S. An interdisciplinary team that includes researchers, first responders, nurses and triage coordinators from a hospital partner will collaborate in a unique participatory design-based approach to designing and building the training simulator. By creating a virtual reality simulator for such training, this project will increase the pool of first responders involved in COVID-19 testing while developing a more effective process to train and prepare such first responders. The simulator’s training modules will also introduce university students to the process of designing and building such virtual reality simulators for medical and health care contexts.

STEM EDUCATION

STEM WORKFORCE DEVELOPMENT | The NSF-funded CyberCorps: Scholarship for Service program at the University of Tulsa is designed to recruit and train the next generation to meet the needs of the cybersecurity mission for federal, state, local and tribal governments. This program provides scholarships for up to 3 years of support for cybersecurity undergraduate and graduate education and, in return, recipients agree to work after graduation for the U.S. government in a position related to cybersecurity. The Tulsa program offers multiple technical and interdisciplinary tracks, each characterized by a focused, yet flexible, program of study.

RESEARCH DRIVING WORKFORCE INNOVATION

FUTURE OF WORK | NSF AI INSTITUTE FOR RESEARCH ON TRUSTWORTHY AI IN WEATHER, CLIMATE, AND COASTAL OCEANOGRAPHY | A team led by the University of Oklahoma has assembled researchers in artificial intelligence, atmospheric and ocean science, and risk communication to develop user-driven, trustworthy AI that addresses pressing concerns in weather, climate, and coastal hazards prediction. This team is significantly enhancing the understanding and prediction of high-impact atmospheric and ocean science phenomena at time scales ranging from hours to months. Integration of a solid theoretical framework for risk communication will ground the research in expert and professional end users’ needs, while simultaneously improving the risk communication community’s understanding of how risk communication approaches influence experts’ trust in AI-based methods and their willingness to integrate them into their workflow. With AI certificate programs aimed at developing workforce skills, engagement with private industry partners, and collaboration with the National Center for Atmospheric Research to create a novel internship and mentoring program for underrepresented groups, the institute is providing the research and training necessary for the future workforce to deliver the advances needed to deal with forecasting and prediction challenges.

EPSCoR

• COMPETITIVE RESEARCH | Oklahoma is one of 28 U.S. states or territories under NSF’s Established Program to Stimulate Competitive Research (EPSCoR). Over $7,540,000 in awards have been made to Oklahoma academic institutions through EPSCoR in FY 2020. For more information, visit Oklahoma’s EPSCoR state web page.

NCSES

• According to the National Center for Science and Engineering Statistics (NCSES), 25% of Science, Engineering, and Health doctorates conferred in Oklahoma are made in Engineering. Visit Oklahoma’s science and engineering state profile to learn more!

LEARN MORE

• NSF70 – In 2020, NSF commemorated its 70th anniversary and the 75th anniversary of the publication of Science - the Endless Frontier. Watch the highlight video for NSF’s seven decades of funding the best and brightest ideas that have transformed our lives and established the U.S. as a science and technology leader.

• 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.