NORTH DAKOTA FACT SHEET

FY 2020 FAST FACTS

$19,927,000
Total NSF awards to North Dakota

$12,686,000
Invested in fundamental research in North Dakota

$7,241,000
Invested in STEM education in North Dakota

TOP NSF-FUNDED ACADEMIC INSTITUTIONS FOR FY 2020

$11,775,000
North Dakota State University - Fargo

$2,608,000
Nueta Hidatsa Sahnish College

$2,487,000
University North Dakota

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 | NSF’s Campus Cyberinfrastructure program invests in coordinated campus-level networking and cyberinfrastructure improvements, innovation, integration, and engineering for science applications and distributed research projects. Funding from the program is supporting the creation of data networking and storage infrastructure dedicated to scientific research and education at North Dakota State University and the University of North Dakota. These network upgrades prioritize science data movement, allowing both institutions to participate more effectively in collaborative research across the globe. The project also prepares both schools for connectivity of much higher capacity through North Dakota’s research and education state network. The networking upgrades enhance efforts to provide a strong and stable workforce equipped with the skills and knowledge necessary to support contemporary advanced research. Examples include the current North Dakota state EPSCoR Track I project, collaborations between researchers at North Dakota State and the University of North Dakota and the other North Dakota institutions and tribal college schools, and student internship programs using the research computing facilities on each campus.

STEM EDUCATION

STEM WORKFORCE DEVELOPMENT | Turtle Mountain Community College received an Advanced Technological Education award to support the establishment of a cybersecurity program, building on the college’s Computer Support Specialist program. With an emphasis on two-year institutions of higher education, the Advanced Technological Education program focuses on the education of technicians for the high-technology fields that drive our nation’s economy. The program supports curriculum development, professional development of college faculty and secondary school teachers, career pathways and other activities.

RESEARCH DRIVING WORKFORCE INNOVATION

FUTURE OF WORK | With support from NSF’s Tribal Colleges and Universities Program, TCUP, the United Tribes Technical College will offer a multi-faceted outreach strategy in which undergraduate STEM students lead community activities that highlight STEM as a potential line of study for pre-college students in urban and rural environments. Materials will be developed by the team and a cultural consultant. Settings will include an outdoor classroom and nature trail, and a Mobile Makerspace will be offered to provide isolated communities access to rarely available opportunities.

TCUP provides awards to tribal colleges and universities, Alaska Native-serving institutions, and Native Hawaiian-serving institutions to promote high quality science (including sociology, psychology, anthropology, economics, statistics and other social and behavioral sciences as well as natural sciences), technology, engineering and mathematics education, research and outreach. The program aims to increase Native individuals’ participation in STEM careers and improve the quality of STEM programs at TCUP-eligible institutions.

EPSCoR

• COMPETITIVE RESEARCH | North Dakota is one of 28 U.S. states or territories under NSF’s Established Program to Stimulate Competitive Research (EPSCoR). Over $6,800,000 in awards have been made to North Dakota academic institutions through EPSCoR in FY 2020. For more information, visit North Dakota’s EPSCoR state web page.

NCSES

• According to the National Center for Science and Engineering Statistics (NCSES), 48% of Science, Engineering, and Health doctorates conferred in North Dakota are made in Life sciences. Visit North Dakota’s science and engineering state profile to learn more!

• 3.31% of North Dakota’s workforce are employed in S&E occupations.

• 6.30% of North Dakota’s industries with high science, engineering, and technology occupations.

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.