WYOMING FACT SHEET

FY 2020 FAST FACTS

$26,333,000
Total NSF awards to Wyoming

$25,694,000
Invested in fundamental research in Wyoming

$639,000
Invested in STEM education in Wyoming

$857,000
Invested in Wyoming startups through NSF’s small business program

TOP NSF-FUNDED ACADEMIC INSTITUTIONS FOR FY 2020

$25,378,000
University of Wyoming

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 | The Cheyenne supercomputer, located at the National Center for Atmospheric Research-Wyoming Supercomputer Center in Cheyenne, is one of eight NSF-funded computing systems that are part of the COVID-19 High Power Computing Consortium. The consortium, a public-private partnership co-led by NSF, is providing researchers with cutting-edge computing power to accelerate understanding of the virus that causes COVID-19 and to develop methods for combating it.

STEM EDUCATION

STEM WORKFORCE DEVELOPMENT | With support from an NSF Research Experiences for Undergraduates site award, the University of Wyoming will bring seven community college students and two professors to the university each summer from 2021 to 2023. This program, jointly supported by the Division of Chemistry and EPSCoR, the Established Program to Stimulate Competitive Research, will allow students and faculty to contribute to chemistry research on projects ranging from energy, to materials, to bio-related topics. Each student will work closely with one of the participating faculty mentors who have been carefully selected for their research accomplishments and records of successfully mentoring undergraduate researchers. This hands-on research experience also includes a variety of activities to educate and train students for their future careers as scientists.

RESEARCH DRIVING WORKFORCE INNOVATION

FUTURE OF WORK | The University of Wyoming was awarded a five-year Mid-scale Research Infrastructure grant through September 2024, to modernize the aging University of Wyoming King Air research aircraft by building a state-of-the-art airborne atmospheric research and education laboratory on a new King Air aircraft. These technologies will become an integral part of NSF’s Lower Atmospheric Observing Facility. The advanced airborne in-situ and remote sensing measurement capabilities are critical for validation and refinement of algorithms used in space-borne measurements and for providing observational constraints on numerical models for weather, climate, air quality and wildfire predictions, supporting many federal agencies’ missions. The modernized instrument suite, extra payload capability, longer flight range, and advanced communications will enable innovative observations and education in Arctic science. The new capabilities of real-time access to the platform and instruments during field experiments will allow special educational deployments and enable students, early career scientists from many universities, and K-12 students and teachers to remotely participate in field campaigns.

EPSCoR

- COMPETITIVE RESEARCH | Wyoming is one of 28 U.S. states or territories under NSF’s Established Program to Stimulate Competitive Research (EPSCoR). Over $5,420,000 in awards have been made to Wyoming academic institutions through EPSCoR in FY 2020. For more information, visit Wyoming’s EPSCoR state web page.

NCSES

- According to the National Center for Science and Engineering Statistics (NCSES), 26% of Science, Engineering, and Health doctorates conferred in Wyoming are made in Engineering. Visit Wyoming’s science and engineering state profile to learn more!

- 3.30% of Wyoming’s workforce are employed in S&E occupations.

- 9.48% of Wyoming’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.