



U.S. National Science Foundation



2025 marks the 75th anniversary of NSF. Throughout the year, the agency will host in-person and virtual activities to commemorate this significant milestone. For more information, visit: [nsf.gov/75years](https://www.nsf.gov/75years)



# KANSAS

## ● FAST FACTS



**\$60,139,000**

Total NSF Awards to Kansas



**\$49,273,000**

Invested in Fundamental Research in Kansas



**\$10,866,000**

Invested in STEM Education in Kansas



**\$1,570,000**

Invested in Kansas Businesses

## ● TOP NSF-FUNDED ACADEMIC INSTITUTIONS

University of Kansas  
**\$27,855,000**

Kansas State University  
**\$17,467,000**

Wichita State University  
**\$3,042,000**

## ● NSF BY THE NUMBERS

The U.S. National Science Foundation (NSF) is an independent federal agency created by Congress in 1950 to promote the progress of science; to advance the national health, prosperity, and welfare; and to secure the national defense. To fulfill this vital role, NSF supports basic research and researchers who create knowledge that transforms the future.

**DID YOU KNOW?**

NSF has funded the work of **268** Nobel Prize winners over 75 years.



**\$9.06B**

FY 2024  
Total Enacted

**92%**  
Funds research, education and related activities



**11K**  
Awards



**1.9K**  
Institutions



**358K**  
People

*"Data represents FY 2024 Actuals unless otherwise indicated"*



[www.nsf.gov](https://www.nsf.gov)



## INNOVATION | *Generating new knowledge that provides a greater understanding of the world around us*

The NSF Global Centers program is an innovative program that supports use-inspired research addressing global challenges through the bioeconomy. For example, **Kansas State University** leads the BioSenseInnovations project, which is dedicated to tackling global challenges in nitrogen management, greenhouse gas (GHG) emissions and their interactions in relation to sustainable agriculture. It develops cutting-edge sensors that can detect nutrients, chemical compounds, soil microbiomes and GHGs. Collecting these data in real time is essential for advancing precision agriculture and promoting sustainable practices. The transdisciplinary team, with collaborators in Canada and the U.K., develops alternative nitrogen fertilizers — including biofertilizers, biostimulants and fertilizers derived from waste recovery — and translates new nitrogen management strategies and GHG emission mitigation technologies to the agricultural sector. By focusing on how soil, microbes and plants interact, the team is creating innovative technologies to help farmers manage their crops more effectively.



## EXPANDING FRONTIERS | *Generating institutional capacity, new technologies and societal impact*

Heating, ventilation, air conditioning and refrigeration (HVACR) are essential to human quality of life but require significant use of hydrofluorocarbons (HFCs). HFCs' chemical stability, combined with challenges associated with separating HFC refrigerant blends into components, make sustainable recycling and repurposing of these refrigerants difficult. The NSF Environmentally Applied Refrigerant Technology Hub (NSF EARTH) at the **University of Kansas**, funded through the NSF Engineering Research Centers program, brings together talent in chemical, environmental, mechanical and materials engineering, as well as architecture, business, chemistry, economics, geography, history, law, psychology and entrepreneurship, to create a transformative "sustainable refrigerant lifecycle" to lowering HFC amounts, create safe, property-balanced replacement refrigerants and increase HVACR energy efficiency. By addressing the technical, environmental and societal challenges of replacing HFC refrigerants, NSF EARTH's research will generate scientific knowledge, engineering products, environmental-policy recommendations and industry and stakeholder behavioral changes to stimulate this HVACR-ecosystem transformation. EARTH has identified over 70 initial HVACR-ecosystem partners, including companies, community colleges and technical/trade schools, nonprofit organizations, international universities and federal labs, to aid with industry adoption of new technologies.



## EDUCATION AND WORKFORCE | *Supporting our STEM talent of today and tomorrow*

**Fort Hays State University**, in partnership with five rural-serving community colleges in Kansas (**Barton Community College, Colby Community College, Dodge City Community College, Garden City Community College** and **Seward County Community College**), the Southwest Plains Regional Service Center (a consortium of rural school districts) and the Ingalls Unified School District, is using an NSF Robert Noyce Teaching Scholarship Program award to address the shortage of STEM teachers in rural areas in Kansas. The project's participants are designing a rural teacher certificate program and implementing an online mentorship program to support prospective teachers embedded within the program, which continues even after they obtain certification. Project partners collaborate to market information about STEM careers, organize a STEM education group and identify prospective teachers with an interest in secondary teaching. Additionally, community colleges partners award tuition assistance as a recruitment tool.

## COMPETITIVE RESEARCH

KANSAS is one of 28 U.S. states or territories under the NSF Established Program to Stimulate Competitive Research (EPSCoR). For more information, visit [KANSAS' EPSCoR state web page](#).

### NCSES

The [National Center for Science and Engineering Statistics \(NCSES\)](#) within the U.S. National Science Foundation is the nation's leading provider of statistical data on the U.S. science and engineering enterprise. As a principal federal statistical agency, NCSES conducts nationally representative surveys and publishes objective data and reports on topics related to research and development, the science and engineering workforce, and STEM education. For example, in FY 2024, **Kansas** invested **\$3,659,000,000** on research and development.

For more information on NSF's impact in your state, please contact NSF Office of Legislative and Public Affairs at [congressionalteam@nsf.gov](mailto:congressionalteam@nsf.gov).

## LEARN MORE

- **BROUGHT TO YOU BY NSF** – NSF has invested in discoveries, inventions, and innovations that have shaped the modern world, including the internet, 3D printing, American Sign Language, Magnetic Resonance Imaging (MRI), deep sea exploration, Doppler radar and more. For more information on NSF impacts, please visit: [nsf.gov/impacts](https://www.nsf.gov/impacts).
- **RESEARCH SECURITY** – NSF is committed to safeguarding the integrity and security of science and engineering while also keeping fundamental research open and collaborative. NSF seeks to address an age of new threats and challenges through close work with our partners in academia, law enforcement, intelligence and other federal agencies. By fostering transparency, disclosure and other practices that reflect the values of research integrity, NSF is helping to lead the way in ensuring taxpayer-funded research remains secure. To learn more, please visit [NSF's Research Security website](#).
- **FOSTERING INNOVATION** – Every year, NSF funds around 400 companies across nearly all technology areas to create prototypes and commercialize technologies. Learn more at [seedfund.nsf.gov](https://www.seedfund.nsf.gov).