



U.S. National  
Science Foundation



# LOUISIANA

## ● FY 2023 Fast Facts



**\$54,412,000**

Total NSF Awards  
to Louisiana



**\$48,456,000**

Invested in Fundamental  
Research in Louisiana



**\$5,956,000**

Invested in STEM  
Education in Louisiana



**\$1,531,000**

Invested in Louisiana  
Businesses

## ● Top NSF-funded Academic Institutions for FY 2023

Louisiana State University  
**\$18,746,000**

Tulane University  
**\$11,800,000**

University of Louisiana at  
Lafayette  
**\$5,029,000**

## ● NSF By The Numbers

The U. S. National Science Foundation (NSF) is an [\\$9.06 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.

**DID YOU  
KNOW?**

NSF has funded the  
work of **261** Nobel Prize  
winners over 75 years.



**\$9.06B**

FY 2024  
Total Enacted

**93%**  
Funds research,  
education and  
related activities



**11K**  
Awards



**1.9K**  
Institutions



**353K**  
People

*\*Data represents FY 2023 Actuals unless otherwise indicated*



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

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## Expanding the Frontiers of Science

Quantum entanglement is a fascinating phenomenon whereby quantum particles can be separated by great distances and demonstrate correlations that go beyond what is possible with classical physics. Entanglement holds great promise to revolutionize communications and allow multiple separated users to someday possess and share entangled quantum particles: the “quantum internet” of the future. The **University of New Orleans**, through an NSF Expanding Capacity in Quantum Information Science and Engineering Track-1 award, is harnessing a novel experimental training platform being built in Boulder, Colorado, to demonstrate entangled effects such as entangled measurements and multi-party entangled states. This work will help build expertise among undergraduate and graduate students, providing a critical boost to the emergence of a quantum-trained workforce capable of tackling the problems of tomorrow.



## STEM Education and Broadening Participation

Through The NSF Experiential Learning for Emerging and Novel Technologies program, the Addressing the Talent and Diversity Gap in Biotechnology Workforce (ASSET) project at the **University of Louisiana at Lafayette** aims to fill the talent and diversity gaps in the biotechnology workforce by providing high-impact experiential education experiences, including undergraduate research, internships and a cohort model, to college students in Louisiana. ASSET builds on and expands components of the university's existing Reginald F. Lewis Scholars program by bringing science, technology, engineering and mathematics-focused research and internship experiences to the existing program to help prepare participants for the next-generation biotechnology industry workforce. In the summer, 18 Lewis Scholars participate in undergraduate research experiences and internships at biotechnology industry partners. Throughout the academic year, UL system faculty, industry partners and industry researchers work with the participants to build their biotechnology skills, familiarize them with biotechnology industry culture and create career pathways via networking opportunities.



## Regional Innovation Engines

NSF Regional Innovation Engines (NSF Engines) represent one of the single largest broad investments in place-based research and development in the nation's history, uniquely placing science and technology leadership as the central driver for regional economic competitiveness. **NSF Engine: Louisiana Energy Transition Engine**, led by **Louisiana State University**, aims to enable a clean energy transition for the state by advancing research and commercialization efforts in the areas of carbon capture, the use of hydrogen as an alternative fuel, carbon dioxide as a feedstock and sustainable water and manufacturing to promote pathways to decarbonization.

## EPSCoR

**COMPETITIVE RESEARCH** | Louisiana is one of 28 U.S. states or territories under the [NSF Established Program to Stimulate Competitive Research \(EPSCoR\)](#). **\$15,532,965** in awards have been made to Louisiana academic institutions through EPSCoR in FY 2023. For more information, visit Louisiana's EPSCoR state web page.

## NCSES

According to the [NSF National Center for Science and Engineering Statistics \(NCSES\)](#), which is housed in NSF, Louisiana ranks 13th in the nation for academic research space. [Visit Louisiana's science and engineering state profile to learn more!](#)

**27.00%** of Louisiana's [higher education degrees are concentrated in S&E fields.](#)

**2.46%** of Louisiana's [workforce is employed in S&E occupations.](#)

**3.57%** of Louisiana's [total employment is attributable to knowledge - and technology - intensive industries.](#)

## Learn More

**CHIPS & SCIENCE** – The CHIPS and Science Act's investments in the U.S. National Science Foundation will help the United States remain a global leader in innovation. Implementation of this legislation will be key to ensuring that ideas, talent and prosperity are unleashed across all corners of the nation. [For more information, please visit the NSF CHIPS and Science website.](#)

**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 the NSF Research Security website.](#)

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