



CALIFORNIA

FY 2021 Fast Facts



\$1,111,576,000

Total NSF Awards to California



\$909,979,000

Invested in Fundamental Research in California



\$156,026,000

Invested in STEM Education in California



\$59,264,000

Invested in California startups

Top NSF-funded Academic Institutions for FY 2021

\$135,512,000

University of California San Diego

\$98,315,000

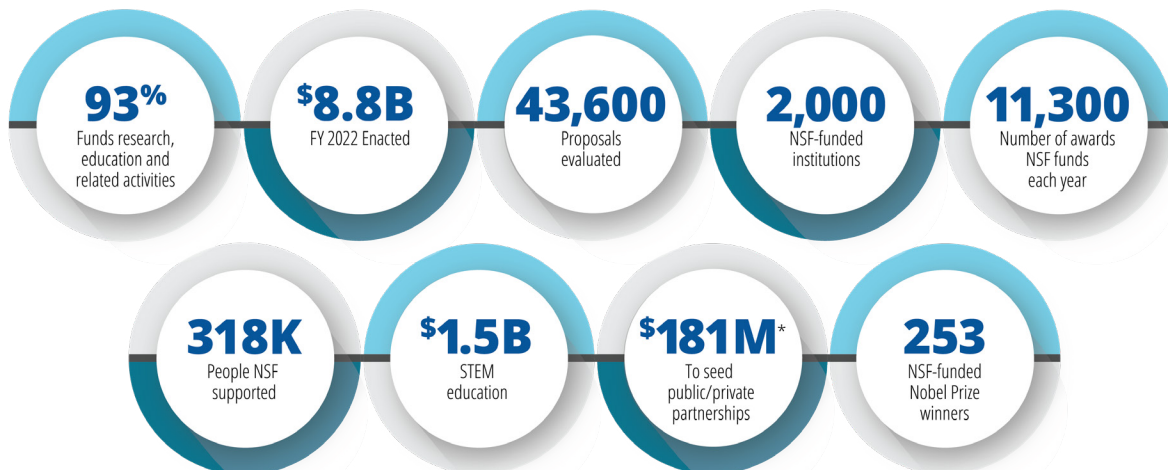
University of California Berkeley

\$79,924,000

California Institute of Technology

NSF By The Numbers

The National Science Foundation (NSF) is an [\\$8.8 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.



Data represents FY 2021 Actuals unless otherwise indicated.
*Corresponds to NSF investments initiated in FY 2021 and spanning multiple years.



NSF-funded COVID-19 Research and Recovery

Researchers at the **University of California Irvine** seek to develop a novel immuno-heart chip to elucidate the relationship between cardiac biomechanics and the combined affliction of hypoxia and an overactive immune system. If successful, the system will lead to a greater fundamental understanding of the reciprocal interactions between heart and immune cells, in conjunction with their environmental factors. The results will be applicable to healthy cardiac function and to the COVID-19 related cardiac complications seen clinically. This understanding will spark conversation towards potential immune targets and novel therapies that may preserve the heart's mechanical function during and after COVID-19 infection. The project will also promote interest in scientific research among undergraduate and high school students through outreach programs. Specifically, these students will be engaged with the scientific study at the interface of COVID-19 research and cardio-immune engineering.



STEM Education

With support from the Hispanic-Serving Institutions Program at NSF, the **San Mateo County Community College** District will develop a program to provide community college students with opportunities to explore STEM careers through workplace visits, job shadowing and internships. By enabling students to interact with STEM professionals, students will gain an understanding of what it takes to be a STEM professional and the extent of what they do. By engaging Hispanic students, the project has the potential to contribute to the diversity of the STEM workforce.



Research Driving Innovation

The new NSF I-Corps Hub at the **University of Southern California** is based on the development of a comprehensive and inclusive education and training program for innovation and entrepreneurship in deep technology ventures in the Western United States. The hub will engage deep technology researchers in lean-startup and customer discovery methodologies to produce teams that advance to the national I-Corps program, further enhancing the National Innovation Network. The project will use a framework for team generation and training pipelines based on best practices developed by hub members, further modified to leverage hub regional characteristics and its distinct diverse demographic signature. The hub plans on incorporating inclusivity in its standardized and integrated approach as well as ethical considerations in team training. The hub will also explore new approaches that may lead to a creative, enabling, human-centric and socially relevant innovation ecosystem in the region. To increase inclusivity, the hub will assess differences in programming and funding success for underrepresented groups and the career paths of scientists and engineers in the general entrepreneurial ecosystem.



Infrastructure

The **University of California, San Diego** is part of the NSF Natural Hazards Engineering Research Infrastructure program, which provides researchers access to large, shared, state-of-the-art facilities, to study natural hazards and the performance of civil infrastructure.

NCSES

According to the [National Center for Science and Engineering Statistics \(NCSES\)](#), which is housed in NSF, California ranks **1st** in the nation for Total R&D performance. Visit California's science and engineering state profile to learn more!

- **6.17%** of California's workforce are employed in S&E occupations.
- **40.73%** of California's higher education degrees are concentrated in S&E fields.

Learn More

COVID RELIEF - 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 (ARP) Act of 2021. For more information on NSF-funded COVID-19 research and recovery, visit NSF's award database for [CARES Act](#) and [ARP](#) awards, and NSF's Toolkit for [COVID funding updates](#).

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.