

# UC Davis Research Brief: National Science Foundation

**UC Davis is a powerhouse for breakthroughs and impact.** Our interdisciplinary research plays a vital role in building the region's economy, improving the quality of life of residents and contributing to America's global leadership in technology and innovation. Collaboration across our top-ranked hospital and veterinary school, as well as our history of science and engineering discoveries, proves our research directly improves American lives.

**The National Science Foundation (NSF)** supports fundamental science and engineering research, driving work with the potential to create products and solutions that improve people's lives. UC Davis was awarded \$43 million in NSF funding in 2024.

UC Davis researchers have used NSF support to:

- Develop new [laser and biophotonics technologies](#) for applications including advanced treatments for tumors, sequencing of DNA, and to observe the activity within living cells.
- Test and develop [defenses against cyber attacks](#) on computer networks by hackers, worms and viruses.
- Meet growing food supply demand by [increasing efficiencies using AI and bioinformatics](#) spanning the entire system — from growing crops through consumption.
- Utilize machine learning to provide early warnings of earthquakes and tsunamis and deliver precise information on potential disruptions and damage.
- Provide entrepreneurial training to commercialize new products and technologies across sectors through the [NSF I-Corps Hub](#).
- Provide vital support in 2024 for 213 UC Davis graduate student and 33 post-doctoral researchers, individuals who will carry today's discoveries forward.