

2020-2021

Highlights

Berkeley Research

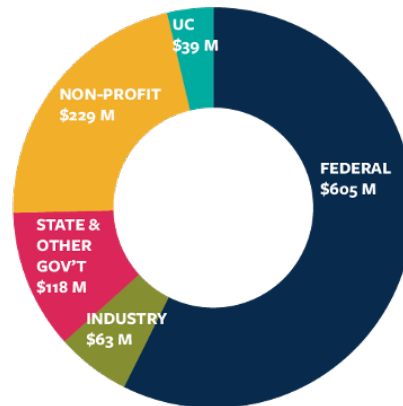
UNIVERSITY OF CALIFORNIA

RESEARCH EXCELLENCE

Record Year for Sponsored Research

2020/21 was a banner year for UC Berkeley researchers bringing **over \$1 billion dollars in support** from external sources to the campus. This is a **30 percent increase** over the previous year. The unprecedented total was driven in part by new support from federal and non-profit sources, with the federal government providing 57 percent and non-profit partners 22 percent in the fiscal year ending June 30, 2021. Of the research funding provided by the U.S. government, the largest contributors are the National Institutes of Health, the National Science Foundation, and NASA. Many of these research awards fund multi-year projects with expenditures that continue in subsequent years. The largest 2020/21 awards focus on new research efforts in **quantum computing, the theory of computing, chemical innovation, infectious diseases** and **space exploration**.

2020/21 Research Funding by Sponsor in Millions



Total Awards = \$1.05 billion
Calculated on the basis of project period

NOBEL PRIZES

David Card Wins 2021 Nobel Prize in Economics

David Card, a labor economist and professor of economics at Berkeley, has won the 2021 Nobel Memorial Prize in Economic Sciences for work that challenged orthodoxy and dramatically shifted understanding of inequality and the social and economic forces that impact low-wage workers. Card is UC Berkeley's sixth economist to win the Nobel Prize in economics and the campus's 26th Nobel laureate overall. [Learn more.](#)



Two UC Berkeley Laureates in 2020

Jennifer Doudna was

awarded the Nobel Prize in Chemistry for the development of CRISPR-Cas9, a genome editing breakthrough that has revolutionized biomedicine. CRISPR Cas9 allows scientists to rewrite DNA — the code of life — in any organism, including human cells, with unprecedented efficiency and precision. She shared the prize with Emmanuelle Charpentier.



Reinhard Genzel won the 2020 Nobel Prize in Physics for the discovery of a supermassive compact object at the center of our galaxy. He shared the 2020 Nobel Prize in Physics with UCLA professor Andrea Ghez.

THEORY OF COMPUTING

New Award for Simons Institute



The Simons Institute is a global center for collaborative research in theoretical computer science and its impact on science, mathematics, engineering, and society. A new \$35M award brings the Simons Foundation's support of the Institute to nearly \$100 million. Under the Institute's current director, Turing Award laureate Shafi Goldwasser, the Institute has played a pivotal role in pushing the frontiers in many fields including post-quantum cryptography, the theory of deep learning as well as the nascent field of algorithmic fairness, which can identify the sources and nature of racial bias in a range of settings and recommend interventions.

NEUROSCIENCE

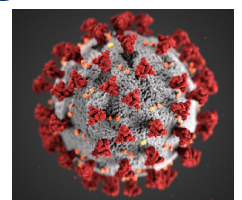
Weill Neurohub

A pioneering research network, the Weill Neurohub unites three premier West Coast public universities to advance treatments for brain diseases. Launched in November 2019 with a \$106 million gift from the Weill Family Foundation, the network brings together neuroscience communities at UCSF, UC Berkeley, and the University of Washington and draws on the power of Lawrence Berkeley National Laboratory and Lawrence Livermore National Laboratory to answer some of the toughest questions about the brain and find effective therapies for the millions of people who suffer from neurological and psychiatric illnesses.

CORONAVIRUS

Campus Rises to COVID-19 Challenge

Our faculty continue to work at the leading edge of **COVID-19 research** from the basic science to better understand the molecular mechanisms of SARS-CoV-2 to the development of rapid diagnostics and therapeutics. Researchers also focus on a wide range of societal impacts and new approaches for delivering services, especially to the most vulnerable populations.



Faculty Excellence 2020-21

Berkeley faculty are leading the charge in many disciplines to make profound changes in the way we understand and interact with the world. Highlights include:



Nobel Laureate

DAVID CARD

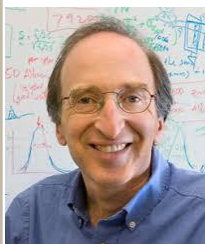
David Card won the 2021 Nobel Prize in Economic Sciences for work that challenged orthodoxy and shifted understanding of inequality and the social and economic forces that impact low-wage workers.



Nobel Laureate

JENNIFER DOUDNA

Jennifer Doudna is best known for her pioneering work on CRISPR/Cas9, a tool for editing genes that offers a potent new approach to understand and treat complex genetic diseases.



Nobel Laureate

SAUL PERLMUTTER

Saul Perlmutter received the 2011 Nobel Prize in Physics. He led one of the two research teams that simultaneously discovered the accelerating expansion of the universe.



Nobel Laureate

RANDY SCHEKMAN

Randy Schekman received the 2013 Nobel Prize in Physiology or Medicine for his role in revealing the machinery that regulates the transport and secretion of proteins in our cells.



Energy Secretary

JENNIFER GRANHOLM

Former Michigan Governor Jennifer Granholm joined President Joe Biden's Cabinet as Energy Secretary. A UC Berkeley alumna, Granholm taught courses and served as an adjunct professor at the Goldman School of Public Policy.



Treasury Secretary

JANET YELLEN

Janet Yellen was appointed Treasury Secretary in early 2021. She was a distinguished faculty member in Business Administration and Economics at UC Berkeley prior to joining the Federal Reserve in 2014.

Berkeley Counts Among Its Current Faculty:

10 Nobel Laureates

6 Recipients of the A.M. Turing Award

1 Recipient of the Fields Medal in Mathematics

24 Howard Hughes Medical Institute Investigators

33 MacArthur Fellows

1 National Poet Laureate

360 Guggenheim Fellows

4 Winners of the Pulitzer Prize

15 Recipients of the National Medal of Science

251 Fellows of the American Academy of Arts and Sciences

90 Members of the National Academy of Engineering

144 Members of the National Academy of Sciences

7 Awardees of the Presidential Early Career Award for Scientists and Engineers

15 Fellows of the National Academy of Inventors

49 American Philosophical Society Members