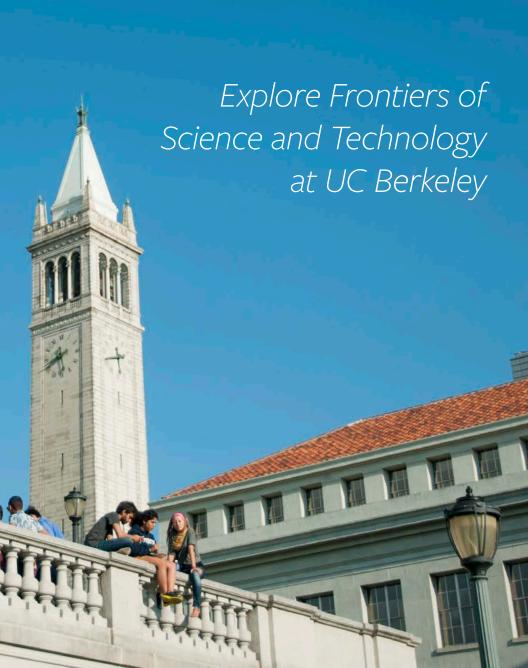
Berkeley Emerging Research Scholars

SciTech Program

July 23 - August 4, 2017



Experience Science and Technology through Discovery

The College of Chemistry and the Berkeley Global Science Institute present SciTech, which will take place at UC Berkeley, July 23 – August 4, 2017. SciTech is for rising high school students (grades 9-12) from the United States and abroad.

You will enhance your understanding of the problems facing the world, learn about the relevance of science and technology in addressing such problems, and be inspired to pursue careers in science and technology that will ensure your contribution to positively impact the world.





SciTech is different from other summer programs in the following aspects:

1. DISTINCTION

Brought to you by an INTERNATIONALLY TOP RANKED college in the world. SciTech is administered and delivered by the College of Chemistry at UC Berkeley and it is led by globally recognized and highly influential faculty. The College's Department of Chemistry is ranked NUMBER ONE in the world.

2. DEPTH

Immerse yourself in SCIENCE AND TECHNOLOGY. As a participating emerging scholar, you will listen to compelling seminars from some of the world's best scientists and engineers. You will complement what you learn from them by gaining hands-on practical experience in various fields of science and technology. Every component of the program is tailored to maximize your scientific understanding of the world around you!

3. INSPIRATION

Combine general knowledge with cutting edge research. You will observe closely how cutting edge research is performed at a top institution. You will be inspired when the frontiers of science and technology are revealed to you.

4. ENGAGE

Provides invaluable insight about the college application process and college life. Students will have an interactive information session with UC Berkeley's Admissions Office to better understand the application process and admission requirements. Students will also have opportunities to mingle with current UC Berkeley students to solicit their advice on the college application process and to get a better sense of college life.



UC Berkeley Student Life



A major part of the program is to experience life as a UC Berkeley student. You will receive insider information into the student advising process and about earning a degree by the Associate Dean of Undergraduate Affairs, take part in a workshop that helps you explore the process of building a winning college application, and interact with current Cal undergraduate and graduate scientists to learn about life as a science major.

Additionally, there are scheduled tours of UC Berkeley, including the College of Chemistry, College of Engineering, and the departments of Molecular and Cell Biology, Mathematical and Physical Sciences. You will get to see the library and collections buildings (where UC Berkeley's Nobel Prizes are stored) as well as the historical Sather Tower and Gate.



Program Highlights:

Science and Technology Topics

Inspirational Discoveries in Science and Technology: Nobel Prize Day

What inspires people to pursue a career (and life) of science? Listen to a panel discussion of science, technology, and engineering professors who tell you about the inspirational discoveries that inspired them. Later in the evening, you will also get to hear from and interact with a scientist whose discoveries led to a Nobel Prize!





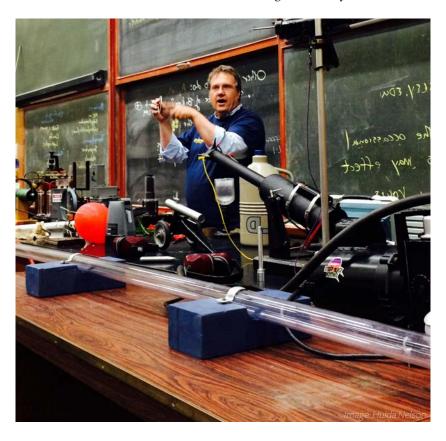


Nano-Berkeley

Hear from and engage with leading researchers on topics that explore the prospects for nanotechnology in society. Complement your understanding of nanotechnology with short lectures and handson experimentation to make nanoparticle-based stained glass windows.

Robo-Berkeley

Experience the stuff that you only see in movies: artificial intelligence, robots, and machine learning! We have exciting seminars planned that are brought to you by the pioneers in this field. You will also complement your learning and understanding of robotics through a site visit and workshop at the UC Berkeley Robot Learning Laboratory.



Reinventing Genetic Research through Genome Editing Technologies

How do we ensure a better quality of life for all people? A key issue to address is the prevalence of disease. You will hear from scholars that are actively seeking to address that problem through their research into genetics and genome editing. You will also take part in such research through mock laboratory exercises in bacterial transformation and microarray development.

Networking Society: Computers and Internet in the Information Age

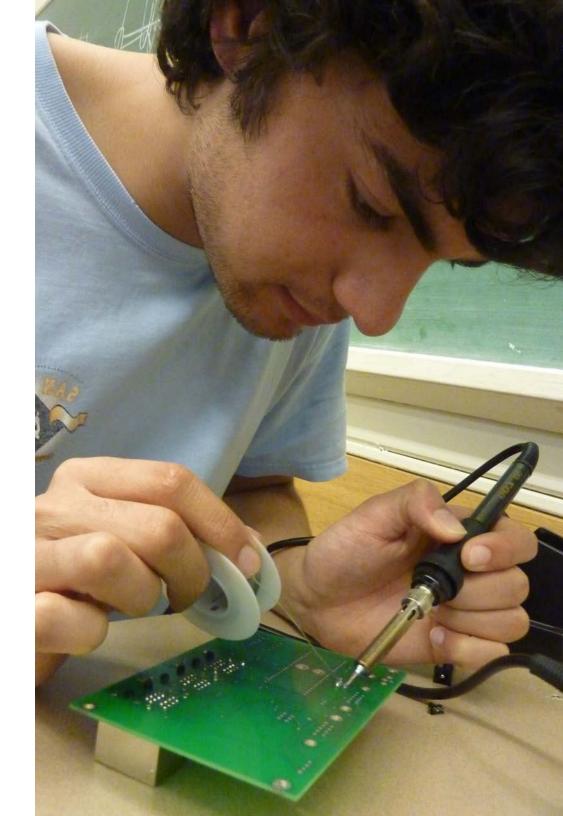
Have you ever dreamed about visiting Silicon Valley? You will take a trip down to the world-renown area that birthed the age of technology and innovative products. Site visits to the world's most famous company headquarters are planned for you to see a day-in-the-life of a technologist.

New Frontiers in Science and Technology

Take a tour of the Advanced Light Source Synchrotron, one of the world's brightest sources of ultraviolet and soft X-ray beams; and the Molecular Foundry, an international nanoscience research facility. Gain insight into the life of a national laboratory scientist and marvel at the Lawrence Hall of Science's public science museum and research center.

Clean and Renewable Energy for a Better Future

Join a discussion about how societal changes today will impact our future tomorrow. You will learn from pioneers that have dedicated their lives to developing new, clean and renewable energy. Additionally, you will take part in mock laboratory exercises to make and test photovoltaics, which you get to take home with you!





Featured Lecturers

SciTech features some of the **world's greatest scientists and engineers** as invited speakers. Simply put, this is an unprecedented opportunity for participating students to learn from, interact, and engage with those that are pushing the frontiers of science and technology. The distinguished scholars will share their knowledge, experience, and life stories **to inspire you** to pursue careers in science and technology and to **catalyze your exploration** of these fields.



18 Lecturers prominent universities

including UC Berkeley, Caltech, Stanford, UCLA, and Cornell



Scientific experts



Chemistry Materials Science Genetics Biology Technology experts



Robotics Nanotechnology Computer Science Engineering



Eligibility

Rising high school (grades 9-12) students from the United States and abroad are encouraged to apply and participate in the program. Those accepted must have a substantial command of the English language and be prepared for an intensive scientific program.

Course Details

SciTech will take place on the historic UC Berkeley campus. This program is held every summer for a two-week duration.

Program tuition includes: room and board, course materials, all meals, all excursions and social events, program souvenirs and other "swag," and official completion certificates signed by the dean of the College.

Admission is rolling with applications closing once 100 scholars are accepted into the program. For more information regarding dates, tuition fees, and the application process, please visit our website: **chemistry.berkeley.edu/bers/scitech**

Contact Us

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