

## SciTech Program Schedule

### ***Day 1: Welcome to Berkeley, California***

- Welcome to UC Berkeley
- Registration and Group Meetings

### ***Day 2: Day in the Life of a Cal Undergraduate Science and Engineering Student***

- Opening Ceremony with Keynote Speakers
- Site Visit: UC Berkeley College of Chemistry, Mathematical and Physical Sciences, Engineering, and Library/Collections
- Panel: Life as a Cal Science Major

### ***Day 3: Nano-Berkeley***

- Workshop: Principles of Nanotechnology in Practice
- Mock Laboratory Exercise
- Distinguished Scholar Seminars: “Prospects for Nanotechnology”

### ***Day 4: New Frontiers in Science and Technology: Lawrence Berkeley National Laboratory***

- Site Visit: Advanced Light Source and Molecular Foundry, Lawrence Berkeley National Lab
- Distinguished Scholar Seminar and Q&A Session: LBNL Faculty Scientist
- Site Visit: Lawrence Hall of Science

### ***Day 5: Clean and Renewable Energy for a Better Tomorrow***

- Workshop: Introduction to Photovoltaics
- Mock Laboratory Exercises
- Distinguished Scholar Seminars: “Challenges for Clean and Renewable Energy in the 21st Century”

### ***Day 6: Robo-Berkeley***

- Workshop: Introduction to Robotics
- Site Visit and Active Learning: UC Berkeley Robot Learning Lab
- Distinguished Scholar Seminars: “Artificial Intelligence Research: Computer Vision, Machine Learning, Natural Language Processing/Planning, and Robotics”

### ***Day 7: Exploring San Francisco, A City Built on Innovation***

- Excursion: Exploratorium and Fisherman’s Wharf
- California Academy of Science and Golden Gate Park
- Golden Gate Bridge

### ***Day 8: Reinventing Genetic Research through Genome Editing Technologies***

- Workshop: Principles of Genetic Research
- Mock Laboratory Exercises
- Distinguished Scholar Seminars: “The Principles and Application of Genome Editing Technologies”

### ***Day 9: Educating Tomorrow’s Scientists: UC Berkeley***

- Panel: “Life as a Graduate Student - Exploring Career Paths in Science”
- Seminar: College Prep, Cal Undergraduate Programs, and How to Finance your Education
- Workshop: College Exploration and “Building a Winning Application” Exercise

### ***Day 10: Networking Society: Computers and Internet in the Information Age***

- Excursion to Silicon Valley
- Site Visit: Tour of Googleplex and/or Facebook HQ

### ***Day 11: Inspirational Discoveries in Science and Technology***

- Workshop: Molecules that Changed the World
- Mock Laboratory Exercises
- STEM Distinguished Professor Panel: “What Inspires Me”
- Nobel Laureate Keynote Lecture

### ***Day 12: Closing Assessment***

- Excursion to Tilden Park for BBQ
- Award Ceremony: Certificate of Completion provided by Dean Douglas S. Clark
- Farewell Gala

### ***Day 13: Program Ends***

- Program Ends
- Check-out and Departure

***Scholars who complete the entirety of the SciTech program will earn a Certificate of Completion from UC Berkeley’s College of Chemistry signed by Dean Douglas Clark.***