

**CSEE**

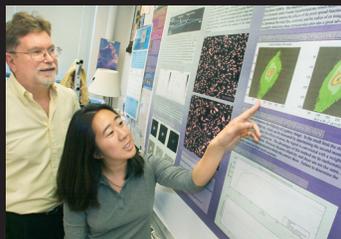
Center for Science and  
Engineering Education



# Education and Outreach Opportunities for Berkeley Lab Staff

*An invitation . . .*

*... to be part of advancing the Lab's education  
mission to foster the next generation  
of scientists and engineers.*



# CSEE needs YOU to help:

- Support access to careers in science and engineering for all students
- Improve the quality of teaching in our schools
- Promote scientific literacy in our community

Whether you have a couple of hours to help with a tour or workshop, or an entire summer to help mentor an intern, your involvement is crucial. We have programs designed to support you in your role — whether you are a volunteer for CSEE, a PI who needs to incorporate education and outreach into your latest project, or a parent or grandparent who wants to know more about how children learn.

Sign up today to be part of these exciting initiatives:

## BERKELEY LAB ADVENTURE ZONE FOR ELEMENTARY SCIENCE (BLAZES) AT THE LAB

Work with our CSEE team to deliver hands-on programs based on the 5th grade science curriculum and standards. 2-hour commitment on weekdays throughout the academic year. On site.

## BERKELEY LAB ADVENTURE ZONE FOR ELEMENTARY SCIENCE (BLAZES) IN THE SCHOOLS

Work with our CSEE team in local Berkeley schools to deliver hands-on programs based on the 5th grade science curriculum and standards. 2-5 hour commitment on weekdays throughout the academic year. 2 visits to a school site recommended. Off site.

## BERKELEY LAB AFTERSCHOOL SCIENCE AND TECHNOLOGY (BLAST) PROGRAM

Work with our CSEE team in local schools to deliver hands-on programs based on the 6th–8th grade science curriculum and standards. 3-hour commitment on weekdays throughout the academic year. Off site.

## CAREERS IN SCIENCE, ENGINEERING, AND TECHNOLOGY

Respond to a teacher's request, or teach a lesson in your



*"It was a wonderful experience to see someone's research abilities develop right before my eyes... Being a mentor made me a better researcher."*

— Mentor, SULI Program

child's classroom. CSEE provides preparation, assistance, and materials. Time commitment varies. Off site.

## SPECIAL GROUP TOURS AND WORKSHOPS

Host small groups of middle and high school students and teachers in your laboratory setting. 2–4 hour commitment on weekdays throughout the academic year. On site.

## HIGH SCHOOL SCIENCE RESEARCH PARTICIPATION PROGRAM (HSSRPP)

Mentor a local high school student for a summer research internship. 6 1/2-week commitment during the summer. On site.

## ACADEMIES CREATING TEACHER SCIENTISTS (DOE-ACTS)

Mentor a middle or high school teacher selected from a national pool for a summer research internship. 8-week commitment during the summer. On site.

## PRE-SERVICE TEACHERS (PST) PROGRAM

Mentor an undergraduate junior for a summer research internship who is majoring in science, engineering, or mathematics and simultaneously preparing to become a teacher. Students come primarily from the UC or CSU systems. 10-week commitment during the summer. On site.

*"It's a lot of fun working with the 5th graders. Often, this is the first time they get to talk to a scientist, and they are really excited about that."*

— Volunteer, BLAZES at the Lab

### SCIENCE UNDERGRADUATE LABORATORY INTERNSHIP (SULI)

Mentor an undergraduate student from a 4-year institution selected from a national pool for a summer research internship. 10-week commitment during the summer. On site.

### COMMUNITY COLLEGE INSTITUTE (CCI)

Mentor an undergraduate student from a 2-year institution selected from a national pool for a summer research internship. 10-week commitment during the summer. On site.

### FACULTY AND STUDENT TEAM (FaST) PROGRAM

Mentor a team composed of a faculty member, and 1–3 undergraduate students selected from a national pool for a summer research internship. FaST teams come from institutions with limited research capabilities, and that serve populations underrepresented in the fields of science, engineering, and technology. 10-week commitment during the summer. On site.

### SCIENCE COMPETITIONS AND EVENTS

Volunteer as a judge, be a keynote speaker, or help with registration or timekeeping at our annual Science Bowl,



*"It is a very special day for all — for the scientists visiting the school, and for the kids who host us in their classroom space. I hope this program can be expanded to reach all fifth graders, especially those in less privileged areas."*

— Volunteer, BLAZES in the Schools

local science fairs, or conferences such as Expanding Your Horizons. Time commitment varies during the academic year. On-site and off-site opportunities.

### DAUGHTERS AND SONS TO WORK DAY (DSTW)

Show your children what you and your colleagues do while you're at work all day. Help with lab tours and activities, registration, escorting groups, and a slew of other tasks. Daylong event on the third Thursday in April. On site.

### TEACHING AND LEARNING WORKSHOPS

Join your colleagues at the Lab to learn more about the programs we offer, how children learn, and current trends in science and engineering education. 2-hour commitment; lunch provided. Throughout the academic year. On site.

### EDUCATION OUTREACH TECHNICAL ASSISTANCE

Work with CSEE staff to design and implement education outreach activities to communicate your research findings. Make use of our expertise and extensive network of schools and collaborating organizations. Customized to meet your needs. Ongoing throughout the academic year. On site.

## Are you ready?



## Call us at 486-5511 or email [csee@lbl.gov](mailto:csee@lbl.gov) to sign up today.

We know that your involvement in our programs will be rewarding and memorable. We look forward to working with you to encourage and equip the next generation of scientists and engineers.

— Susan Brady, Head CSEE

## CSEE Outreach Reference Table

OUTREACH ACTIVITIES	COMMITMENT	LOCATION	ADDITIONAL INFORMATION
<b>TOURS AND WORKSHOPS</b>			
Berkeley Lab Adventure Zone for Elementary Science (BLAZES) At the Lab	2 hours per class	On site	Elementary schools from Berkeley, Oakland, and nearby.
Berkeley Lab Adventure Zone for Elementary Science (BLAZES) In the Schools	2-5 hour per school	Off site	Elementary schools in the Berkeley Unified School District.
Berkeley Lab Afterschool Science and Technology (BLAST) Program	3 hours per class	Off site	
Special Group Tours and Workshops	2-3 hours per group	On site	Duration will depend on the type of tour or workshop requested.
<b>MENTORING OPPORTUNITIES</b>			
High School Student Research Participation Program (HSSRPP)	6.5 weeks	On site	Local 11th and 12th grade high school students.
DOE Academies Creating Teacher Scientists (DOE ACTS)	8 weeks	On site	Teachers from middle and high schools across the US.
Pre-Service Teachers (PST)	10 weeks	On site	Undergraduates from CSU and from UC's CalTeach program
Science Undergraduate Laboratory Internship (SULI)	10 weeks	On site	Undergraduates from four-year institutions across the US.
Community College Institute (CCI)	10 weeks	On site	Undergraduates from two-year institutions across the US.
Faculty and Student Teams (FaST)	10 weeks	On site	Increase capacity for research at underrepresented institutions.
<b>ADDITIONAL OUTREACH TO SCHOOLS AND COMMUNITY</b>			
Careers in Science, Engineering, and Technology	1 hour plus travel time	Off site	
DOE Science Bowl <i>Non-Scientific Support Also Needed</i>	1 day	On site	Event held on Saturday.
Science Competitions and Events <i>Non-Scientific Support Also Needed</i>	2-3 hours plus travel time	Off site	
<b>OUTREACH TO LAB STAFF</b>			
Daughters and Sons to Work Day (DSTW) <i>Non-Scientific Support Also Needed</i>	1 day	On site	Event held on the third Thursday of each April.
Teaching and Learning Workshops	2 hours	On site	Lunch provided.
Education Outreach Technical Assistance	TBA	On site	