GOVERNMENT & COMMUNITY RELATIONS

LBNLNEXT

Cultivating the Next Generation in STEM

BERKELEY LAB

Bringing Science Solutions to the World

GOVERNMENT & COMMUNITY RELATIONS

K-12 STEM EDUCATION & OUTREACH PROGRAMS

Cultivating the next Generation in STEM

How do we leverage nationals labs to create authentic STEM experiences and develop the next generation in STEM?

Strengths of National Lab K-12 Programs

STEM PROFESSIONALS

Students are exposed to diverse mentors and role models with careers in many fields

CUTTING-EDGE FACILITIES

One-of-a-kind instruments and spaces can inspire and engage students

ACTIVE RESEARCH

Students can actively witness cutting edge research and see how they can contribute

The best way to get involved…

Sign up for community activities here

Berkeley Lab volunteer sign-ups are now hosted on Galaxy Digital. Click here for a short summary of current volunteer programs, sign up forms, and time commitments. More details about volunteering for each program are available on the Galaxy Digital page.

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K-12 WORK-BASED LEARNING CONTINUUM

BERKELEY LAB

Learning ABOUT work

Learning FOR work

Learning THROUGH work

CAREER AWARENESS

Broaden student options via awareness of careers and the role of education.

CAREER EXPLORATION

Explore career options to motivate and inform student decision-making.

CAREER PREPARATION

Apply practical experiences to develop the knowledge and skills necessary for success.

CAREER TRAINING

Train for employment and/or postsecondary education in a specific range of occupations.

RELEVANT K-12 PROGRAMS:

- Let's Talk About STEM
- AfterSchool Science Hour
- Live Science

SAGE
science accelerating girls' engagement

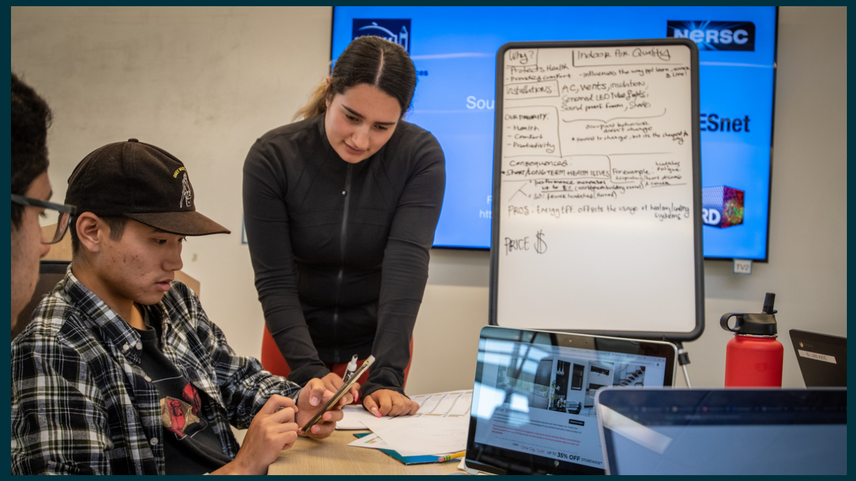
SeA
Science en Acción

BLDAP
Berkeley Lab Director's Apprenticeship Program

Berkeley Lab Director's Apprenticeship Program

Experiences in research

School and Public Programming



Hands-on learning and interactive engagement opportunities

AWARENESS

COLLEGE INTERNSHIP

EARLY CAREER

DOE CAREER

K through Career Engagement

AWARENESS

TRAINING

PRE-COLLEGE INTERNSHIP

COLLEGE INTERNSHIP

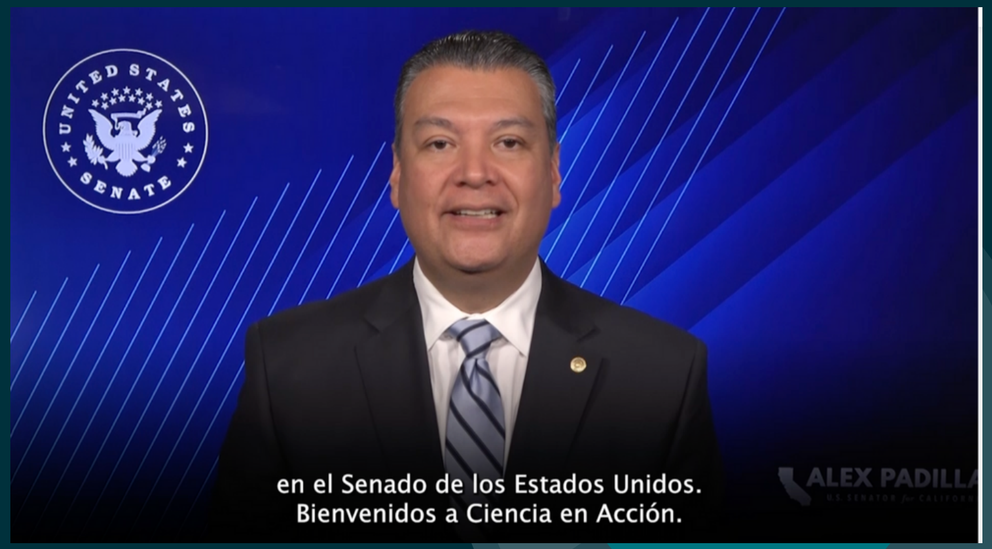
EARLY CAREER

DOE CAREER

ADDRESSING BARRIERS TO PARTICIPATION

SeA

Science en Acción



Campamento bilingüe de STEM

SAGE

Science Accelerating Girls' Engagement

A one-week program connecting young women with STEM professionals

- 150+ students since 2020
- 6 alumni completed a 2022 internship at LBNL
- 27 students (in person) for 2022
- 55 LBNL applications in 2022
- Joint National Lab initiative (SLAC, LLNL, Fermi, LANL, ORNL)

Berkeley Lab Director's Apprenticeship Program

Berkeley Lab's introductory STEM career experience

An opportunity to gain technical skills and prepare for an internship

- 59 students since 2020
- ~50% return for EinR (internship)
- 23 students (in person) for 2022
- 97 applications in 2022
- Working on publishing an open source data science and python course

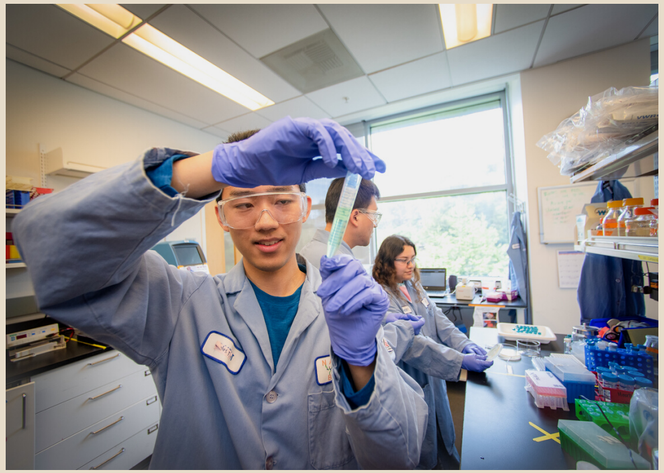
Building Skills and Relationships with the Next Generation

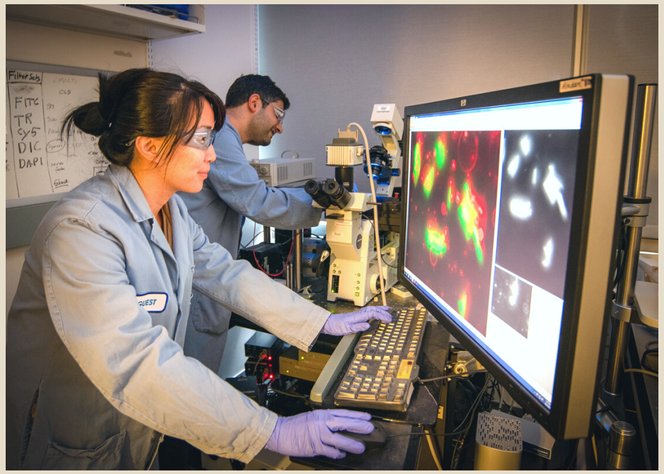
Evelynn Posdas
SAGE 2021
BLDAP 2022

Alejandro Rodriguez
SeA 2022
BLDAP 2022

Experiences in research

Berkeley Lab's advanced internship program for high school students





An opportunity to work on an individual project with a Berkeley Lab employee

- 94 students since 2021
- 48 students (virtual) in 2022
-154 applications in 2022

K-12 Programming Benefits

- Increased visibility and engagement with the public
- Optimal recruitment activities for students and families
- Professional development of a diverse workforce of the future
- Skilled, diverse staff ready to build emerging technologies, solve problems , and take advantage of current DOE initiatives

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THANK YOU

Faith Dukes,
Director of K-12 Programs
k12education.lbl.gov

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