To find out more about WD&E and our programs, go to **education.lbl.gov**

Workforce Development & Education
BERKELEY LAB

Impact Report

Inspiring and preparing the next generation of scientists, engineers, technologists, and STEM professionals, Berkeley Lab **Workforce Development & Education (WD&E)** offers a range of programs for undergraduate, postbaccalaureate, graduate students, and faculty.

BERKELEY LAB

U.S. DEPARTMENT OF **ENERGY** | Office of Science

lbl.gov

science.osti.gov/wdts

23-HR-21141 2022

Berkeley Lab
Workforce Development & Education

Our Approach

Programs are developed and executed according to Core Requirements and Model Practices established by the **Department of Energy (DOE), Office of Science, Workforce Development for Teachers and Scientists (WDTS)**. For more information: **https://science.osti.gov/wdts**

WD&E programs align with the 2018 Committee on STEM Education (CoSTEM) 5-Year Plan on STEM Education of the National Science and Technology Council, Executive Office of the President of the United States.

WD&E PROGRAMS
BLUFF Berkeley Lab Undergraduate Faculty Fellowship
BLUR Berkeley Lab Undergraduate Research
CCI Community College Internship
EERE Energy Efficiency & Renewable Energy
GEM Graduate Degrees for Minorities for Engineering and Science
MLEF Mickey Leland Energy Fellowship
SCGSR Office of Science Graduate Student Research
SOAR Soar for Youth
STEM CORE
SULI Science Undergraduate Laboratory Internship
VFP Visiting Faculty Program

Enrichment Activities & Deliverables

Spring, Summer, Fall Sessions 2022

Papers	STEM/Networking Activities	Posters
86	34	85

Science Areas

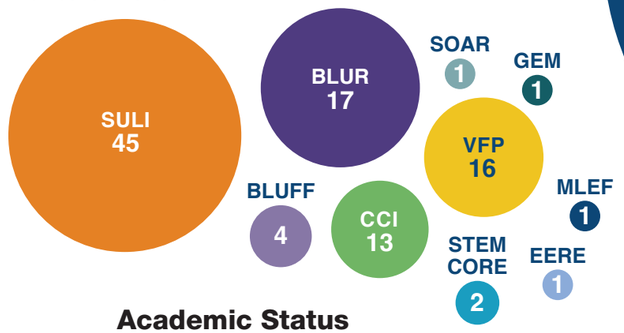
Number and Percentage of Interns†

	Physical Sciences	Computing Sciences	Energy Sciences	Earth & Environmental Sciences	Energy Technologies	Biosciences	Operations
	30	27	15	10	7	11	1
	30%	27%	15%	10%	7%	11%	1%

Total Number of Interns: 101

Internship Programs

Number of Interns



Largest number of Community College Interns & Visiting Faculty Collaborators of **all DOE National Labs.**

28.7%
of the participants are Underrepresented Minorities (URMs) American Indian or Alaska Native, Black or African American, Hispanic or Latinx, Native Hawaiian or Pacific Islander, and two or more races

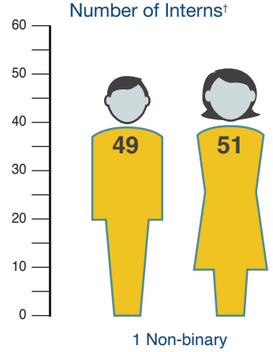
Academic Status

Number of Interns†

Senior	23
Junior	23
Sophomore	21
Post Baccalaureate	17
Faculty	11
Freshman	4
Graduate	2
High School	0

Male/Female Ratio

Number of Interns†



1 Non-binary

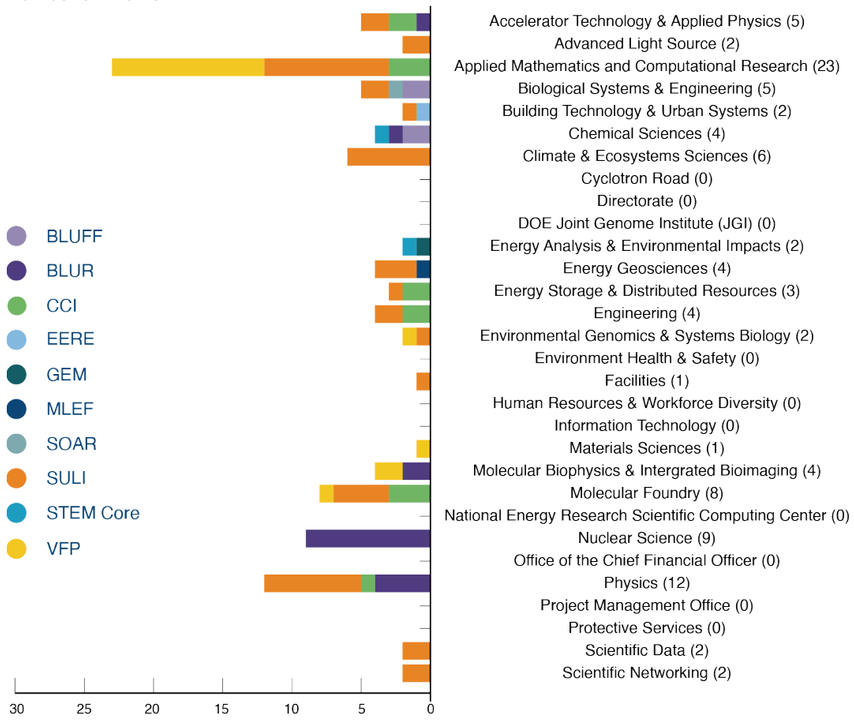
Ethnicity

Number of Interns*

American Indian or Alaska Native	<10
Native Hawaiian or Pacific Islander	<10
Black or African American	<10
Choose not to self identify	<10
Two or more races	<10
Hispanic or Latinx	19
Asian	32
White	37

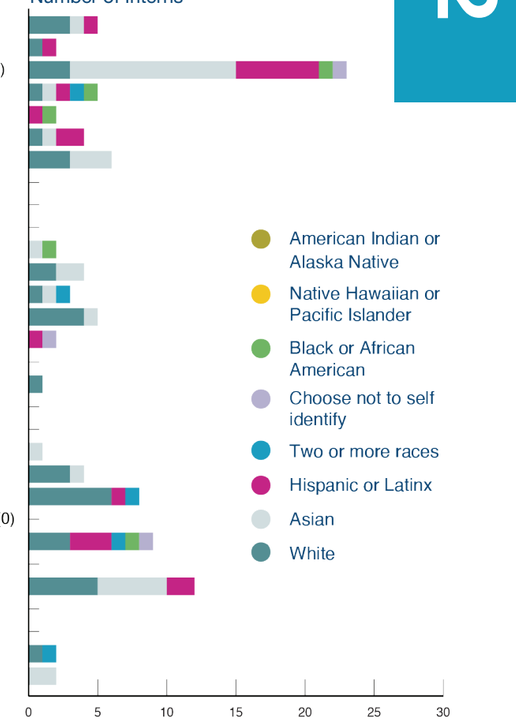
Internship Programs by Division

Number of Interns



Ethnicity by Division

Number of Interns†



†Does not include SCGSR interns.

By the Numbers: 2022

Berkeley Lab
Workforce Development & Education

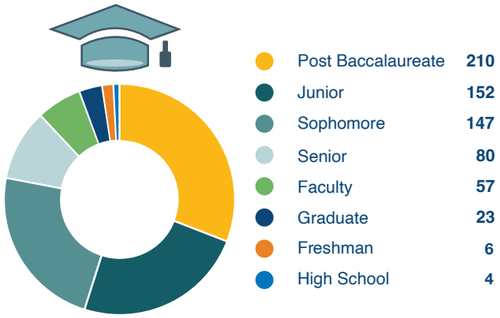
Berkeley Lab is one of the **TOP 5 LARGEST NATIONAL LABORATORY PROGRAMS** in the DOE Office of Science Workforce Development for Teachers and Scientists

"The interns I had the opportunity to supervise at Berkeley Lab have always had great motivation and a strong desire to learn. Some of the small research projects sometimes have led to whole new areas of inquiry — and it's always an immense pleasure to see them thrive, get accepted in grad school and become scientists in their own rights."

— Antoine Wojdyla,
Research Scientist
Advanced Light Source

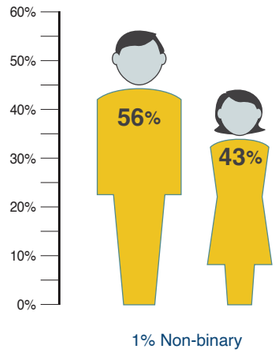
Total Number of Interns 2018 – 2022: 638

Academic Status
Number of Interns†



Post Baccalaureate	210
Junior	152
Sophomore	147
Senior	80
Faculty	57
Graduate	23
Freshman	6
High School	4

Male/Female Ratio
Percentage of Interns†



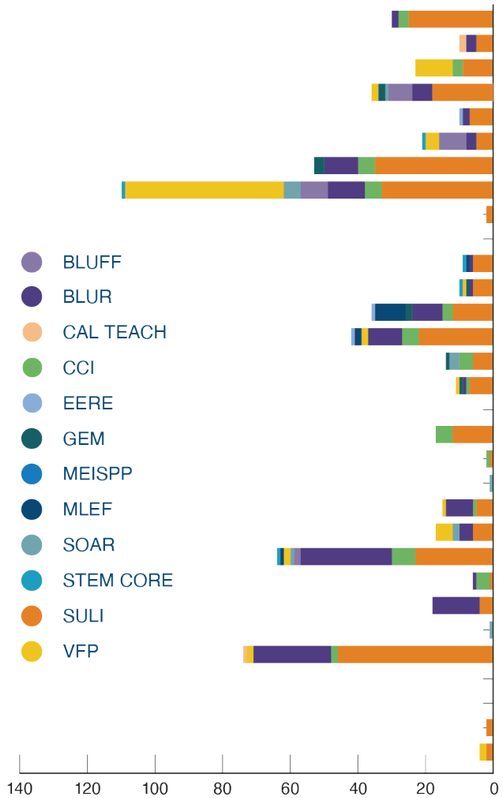
1% Non-binary

26.7%
of the participants are Underrepresented Minorities (URMs) American Indian or Alaska Native, Black or African American, Hispanic or Latinx, Native Hawaiian or Pacific Islander, and two or more races

Ethnicity
Number and Percentage of Interns†

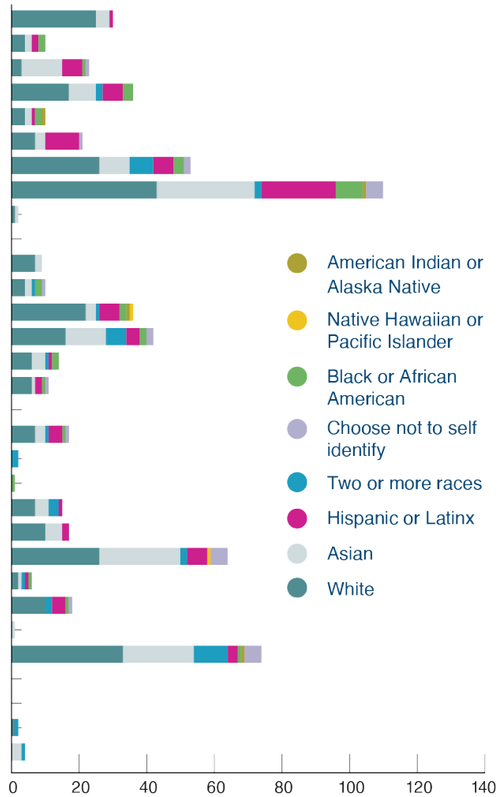
American Indian or Alaska Native	<10	<10%
Native Hawaiian or Pacific Islander	<10	<10%
Choose not to self identify	25	<10%
Black or African American	33	<10%
Two or more races	43	<10%
Hispanic or Latinx	88	14%
Asian	156	24%
White	287	45%

Internship Programs by Division
Number of Interns



Accelerator Technology & Applied Physics (30)
Advanced Light Source (10)
Appllied Mathematics & Computational Research (23)
Biological Systems & Engineering (36)
Building Technology & Urban Systems (10)
Chemical Sciences (21)
Climate & Ecosystems Sciences (53)
Computational Research (110)
Cyclotron Road (2)
Directorate (0)
DOE Joint Genome Institute (9)
Energy Analysis & Environmental Impacts (10)
Energy Geosciences (36)
Energy Storage & Distributed Resources (42)
Engineering (14)
Environmental Genomics & Systems Biology (11)
Environmental Health & Safety (0)
Facilities (17)
Human Resources & Workforce Diversity (2)
Information Technology (1)
Materials Sciences (15)
Molecular Biophysics & Integrated Bioimaging (17)
Molecular Foundry (64)
National Energy Research Scientific Computing Center (6)
Nuclear Science (18)
Office of the Chief Financial Officer (1)
Physics (74)
Project Management Office (0)
Protective Services (0)
Scientific Data (2)
Scientific Networking (4)

Ethnicity by Division
Number of Interns†



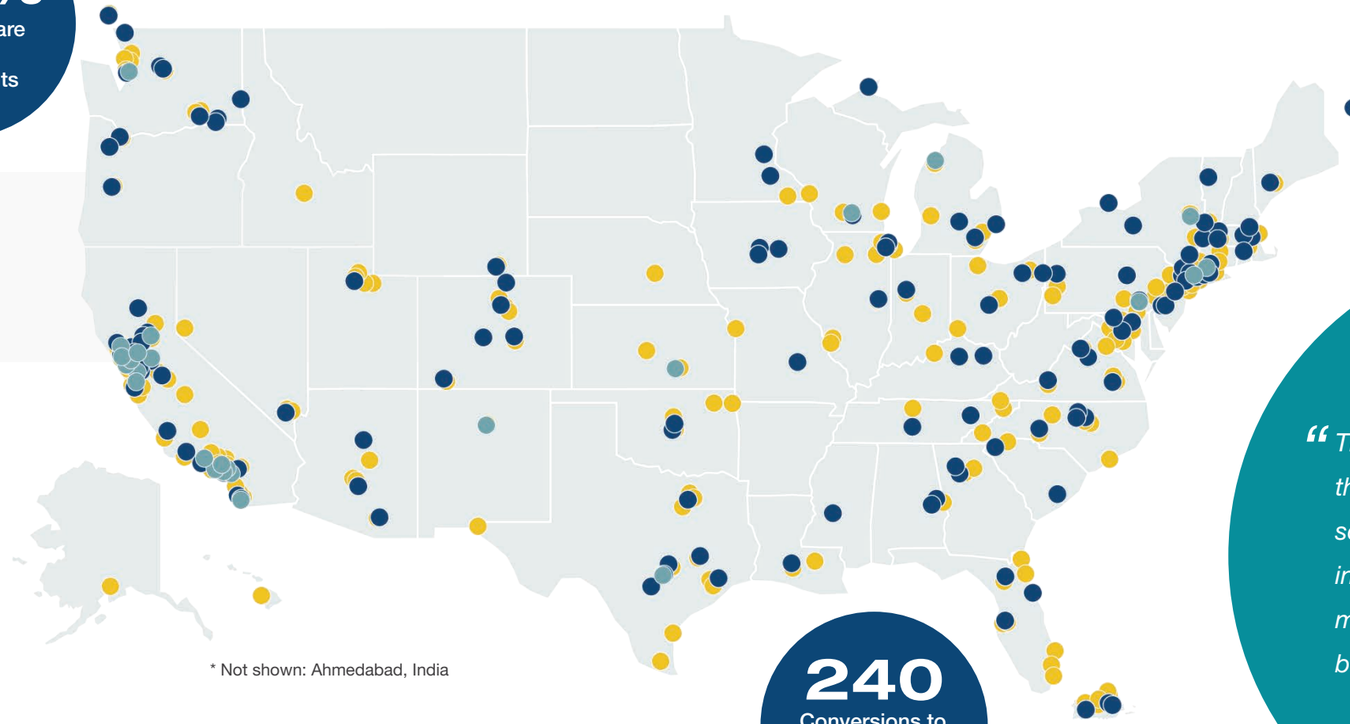
†Does not include SCGSR interns.

By the Numbers: 2018 – 2022

Our Interns Come from Across the US

23%
of Interns are repeat participants

- 2 Year Community Colleges **44**
- 4+ Year Universities **169**
- Home Cities* **355**



* Not shown: Ahmedabad, India

456
Mentors participated from 2018 – 2022

240
Conversions to hired positions from 2018 – 2022

Enrichment Activities & Deliverables

Spring, Summer, Fall Sessions 2018 – 2022

Papers	STEM/Networking Activities	Posters
569	163	556

Science Areas

Number and Percentage of Interns†

	Computing Sciences	Physical Sciences	Energy Sciences	Earth & Environmental Sciences	Energy Technologies	Biosciences	Operations
	145	136	109	90	64	73	21
	23%	21%	17%	14%	10%	11%	3%

†Does not include SCGSR interns.

"This was a phenomenal experience that made me realize that I belong to science, as well as gave me confidence in the potential I have as a biochemist/ molecular biologist. It was an honor being an intern at Berkeley Lab."

— Dabne Herrera Huerta
Fall 2022

The WD&E Team
Shown from left to right:
Top: Colette Flood,
Laleh Coté, Nakeiah Harrell
Middle: Joe Crippen,
Janique Ernest, Ingrid Ockert
Bottom: Brieanna Wright,
Julio Jaramillo, Ernesto Herrera Jr.