

UC Berkeley Engineering

 Berkeley, California

☆ **#3 Best Engineering Programs**
U.S. News & World Report, 2026

☆ **#7 Best Global Universities**
U.S. News & World Report, 2026

☆ **33.5% projected growth in data scientist employment by 2034**
U.S. Bureau of Labor Statistics, 2026



Applied AI in Engineering Summer Institute

An introductory two-week academic program exploring how artificial intelligence is applied across engineering disciplines, including robotics, energy systems, design, and advanced manufacturing.

Students participate in faculty-led instruction, technical workshops, industry visits, and team-based capstone development, culminating in a final project presentation.

Previous Program Faculty



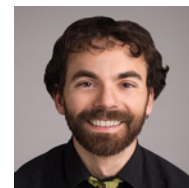
Ana Claudia Arias
Professor

Dr. Ana Claudia Arias is a professor at the Electrical Engineering and Computer Sciences Department at the University of California, Berkeley, and a faculty director at the Berkeley Wireless Research Center (BWRC). She received her PhD in Physics from the University of Cambridge, UK. Prior to that, she received her master and bachelor degrees in Physics from the Federal University of Paraná in Curitiba, Brazil.



Kosa Goucher-Lambert
Assistant Professor

Dr. Kosa Goucher-Lambert received his MS (2014) and PhD (2017) in Mechanical Engineering from Carnegie Mellon University. His primary research interests focus on understanding decision-making processes in engineering design using a combination of mathematical analyses, computational modeling, human cognitive studies, and neuroimaging approaches.



Josh Hug
Associate Teaching Professor

Josh Hug has been with the department of Electrical Engineering and Computer Sciences at UC Berkeley since August 2014, and was a lecturer at Princeton University from 2011–2014. He received his PhD in 2011 from UC Berkeley, with research focused on computational models of bacterial signal processing and decision making. He received his BS in Electrical Engineering in 2003 from the University of Texas at Austin.

Program Highlights

- Explore applications of artificial intelligence across engineering disciplines.
- Learn through faculty-led lectures, technical workshops, and applied activities.
- Collaborate with an international team to develop and present a capstone project.
- Connect academic concepts with engineering practice through campus and industry visits.



Contact us:

summerprograms@shorelight.com

Applied AI in Engineering Summer Institute

Sample Schedule

WEEK 1 • EXPLORE & DISCOVER

MON • Welcome to Berkeley

Arrival, check-in, campus orientation and welcome social

TUE • AI in Motion

Legged robotics, self-driving cars, battery storage and capstone workshops

WED • Intelligent Robotics

Safety-critical AI, aerial robots and capstone development

THU • Industry Exploration

Amazon facility and Intel Museum visits

FRI • AI for Energy

Wind, geothermal, solar and ocean energy, plus a guest session with a Google professional

WEEK 2 • BUILD & PRESENT

MON • Industrial AI

Machine learning for industrial systems, Berkeley campus tour and project advising

TUE • Sustainable Manufacturing

Advanced manufacturing and capstone development

WED • AI Systems & Design

Recommendation systems, wind tunnel tour and AI design

THU • Responsible Innovation

Social implications of computing, Jacobs Institute tour and AI design

FRI • Capstone Showcase

Final presentations and completion ceremony

*The final schedule is subject to change based on availability.



Program Overview

Location	Berkeley, California
Application Deadline	April 30, 2027
Cost	\$8,750, including tuition, housing, meals, airport transportation, insurance, and excursions
Deposit Requirement	\$1,000
Dates	July 5, 2027 – July 17, 2027
Age Requirement	Over 18 years old
Undergraduate Enrollment	Students must be currently enrolled in any undergraduate degree program or have recently graduated;
English Proficiency Requirement	TOEFL 4.5, IELTS 6.5, or equivalent
Outcomes	Upon completion of the program, students will receive: • Certificate of Achievement and letter of completion from University of California, Berkeley • Letter of Recommendation from program faculty* • Completed Capstone Project to bolster resume and portfolio <i>*Provided at the discretion of program faculty</i>

Why Students Loved It

“The lessons were so valuable, and I’m grateful to have learned so much alongside such amazing people.”

- Marcos



“I think Berkeley is the most influential in terms of engineering. I came here to explore the potential of why AI will change the world. This program is very exciting!”

- Xingzhi



Join us on campus
this summer!

Scan the QR code to register for the Applied AI
in Engineering Summer Institute at UC Berkeley

UC Berkeley
Engineering

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