UC Berkeley Engineering

Berkeley, California

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

#6 Best Global Universities
U.S. News & World Report, 2026

38% growth in AI roles expected by 2030
Precedence Research, 2023

Applied AI in Engineering Summer Institute

- Explore applied artificial intelligence and engineering innovation this summer at the University of California, Berkeley.
- Experience world-class academics and hands-on learning in the heart of California's technology ecosystem.
- Live and study on a renowned U.S. campus, connect with exceptional peers and Berkeley faculty, and gain the skills and insights valued by leading universities and future employers.

Past 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

- Interdisciplinary instruction from 8–10 UC Berkeley faculty specializing in diverse fields of applied artificial intelligence.
- Hands-on project experience with pathways in AI agents, AI analytics, or AI programming.
- Exclusive visits to leading technology companies, including Tesla and Amazon, offering direct exposure to the AI industry.
- Dedicated non-technical track designed for students without a STEM background.

IN COLLABORATION WITH SHORELIGHT

Applied AI in Engineering Summer Institute

- **Interdisciplinary Learning** – The program is designed to bring together ideas from multiple fields, helping students understand how artificial intelligence connects with engineering, technology, and real-world innovation.
- **Broad Academic Exposure** – Learn how AI is applied across different industries and disciplines, gaining insight beyond a single technical field.
- **Hands-On Experience** – Students apply what they learn through practical, project-based work that explores real-world AI applications.
- **Open to All Backgrounds** – A non-technical track makes the program accessible to students from all academic disciplines. No prior coding or STEM experience is required.

Sample Week 1 Timetable

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Breakfast	Cohort arrival Check in & site tours Safety & wellbeing induction Settling in & orientation	Breakfast	Breakfast	Breakfast	Breakfast	Breakfast	Breakfast
Morning		Machine Learning and Recommendation Systems (Prof. Josh Hug)	Semiconductor Processing for AI (Dr. Zakaria Y Al Balushi)	AI for Clean Energy (Dr. Scott Moura)	AI for Battery Storage (Dr. Scott Moura)	San Francisco Tour	Silicon Valley Tourism
		Lunch	Lunch	Lunch	Lunch		
Lunch		The Social Implications of Computing (Prof. Josh Hug)	AI and Design (Dr. Kosa Goucher-Lambert)	The Crucial Role of Medical Devices (Dr. Ana Claudia Arias)	Perception and Planning for Autonomous Flight (Dr. Mark Mueller)		
Afternoon		Campus Tour	Company Visit - Tesla	Capstone Workshop	Guest Speaker Seminar		
Dinner	Dinner	Dinner	Dinner	Dinner	Dinner	Dinner	Dinner
Evening	Grocery Shopping	Board Game Night	Evening Walk	Karaoke	Game Night	Free Time	Free Time

Program Overview

Location	Berkeley, California
Application Deadline	May 1, 2026
Cost	$8,500 including tuition, housing, meals, airport transportation, insurance, and excursions
Scholarships	Students from partner institutions are eligible for scholarships of up to **$1,500**.
Deposit Requirement	$1,000
Dates	July 6, 2026 – July 18, 2026
Age Requirement	Students must be over 18 years old before the start of the program
English Proficiency Requirement	TOEFL 80, IELTS 6.5, or equivalent. English waivers are available upon request.
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 **Provided at the discretion of program faculty*

Why Students Loved It

"The lessons were so valuable, and I'm grateful to have learned so much alongside such amazing people."

Marcos, Summer 2025 Participant Brazil

"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!"

Zhu, Summer 2024 Participant China

Join us on campus this summer!

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

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