UC Berkeley Engineering

GRADUATE PROGRAMS AT-A-GLANCE

Educating Leaders
Creating Knowledge
Serving Society

By the Numbers

Berkeley Engineering is among the top engineering programs in the nation as ranked by *U.S. News & World Report*.

Graduate Engineering
Ranked #3 (2025)

1st	Computer engineering
1st	Computer science
1st	Environmental engineering
2nd	Chemical engineering *
2nd	Civil engineering
2nd	Materials engineering
3rd	Electrical engineering
3rd	Industrial engineering
3rd	Mechanical engineering
4th	Nuclear engineering
6th	Bioengineering

Undergraduate Engineering
Ranked #3 (2024)

1st	Civil engineering
1st	Environmental engineering
2nd	Computer science
2nd	Materials engineering
3rd	Electrical engineering
3rd	Mechanical engineering
4th	Chemical engineering *
5th	Industrial engineering
7th	Bioengineering
18th	Aerospace engineering **
n/a	Computer engineering, Engineerieng science, Nuclear engineering ***

*   Offered through the College of Chemistry

**   New program launched in Fall 2022

***   Computer engineering program not ranked by *USN&WR* in 2024. *USN&WR* last ranked undergraduate engineering science/engineering physics programs in 2016 and nuclear engineering programs in 2004.

Who Are We?

Our Students

1,320	Ph.D.
1,104	Master's
32.7%	Women
26.7%	International
16.2%	Underrepresented

Our Faculty

6	Turing Award recipients
73	National Academy of Engineering members
247	Faculty
2,000+	Inventions by Berkeley Engineering researchers

Our Alumni

80,489	**118**	**178**
Number of Berkeley Engineering alumni	Countries	National Academy of Engineering members

Master of Science & Doctoral Programs

engineering.berkeley.edu/grad-programs

Applied Science & Technology

Degree offered: Ph.D. — Focus on studies involving the application of physical and mathematical techniques to emerging areas within the physical and life sciences.
ast.berkeley.edu

Bioengineering

Degrees offered: MEng, MTM, Ph.D. (joint program with UCSF) — Pursue research and educational programs that open new areas of inquiry and drive transformational technologies.
bioegrad.berkeley.edu

Civil & Environmental Engineering

Degrees offered: MEng, M.S., Ph.D. — Conduct cutting-edge research that addresses societal needs for well-designed and well-operated buildings, energy, transportation and water systems.
ce.berkeley.edu/grad

Electrical Engineering & Computer Sciences

Degrees offered: MEng, M.S., Ph.D. — Work at the leading edge of information science and technology with a broad impact on society.
eecs.berkeley.edu/academics/graduate

Industrial Engineering & Operations Research

Degrees offered: MAnalytics, MEng, M.S., Ph.D. — Push the frontiers of optimization, stochastics and data science, supply chains, healthcare, energy, robotics, finance and risk management.
ieor.berkeley.edu/academics

Materials Science & Engineering

Degrees offered: MEng, Ph.D. — Work with all-natural and synthetic materials — their extraction, synthesis, processing, properties, characterization and development for technological applications.
mse.berkeley.edu/graduate-admissions

Mechanical Enginering

Degrees offered: MEng, Ph.D. — Span all areas of energy production and transfer, as well as system design and control, including robotics, biomaterials and control of both ground vehicles and aircraft.
me.berkeley.edu/graduate

Nuclear Engineering

Degrees offered: MEng, Ph.D. — Conduct research in fields like energy systems and the environment, fission reactor analysis, fuel cycles and radioactive waste, nuclear thermal hydraulics and risk.
nuc.berkeley.edu/graduate-programs

Professional Master's Programs

engineering.berkeley.edu/grad-programs

Master of Advanced Study in Engineering (Online)

Choose from four interdisciplinary concentrations: electronics and systems engineering; advanced manufacturing and materials; infrastructure, energy and the environment; and robotics and controls. Complete the 24-unit degree at your own pace: in 9 months full-time or 1.5-4 years part time.

mas-e.engineering.berkeley.edu

Master of Analytics

An 11-month program that trains students in data-driven analytical methods and tools for optimization, statistics, simulation and risk management with relevant industry context.

analytics.berkeley.edu

Master of Development Engineering

A 15-month (three-semester) program integrating engineering, economics, business, natural resource development and social sciences to develop, implement and evaluate technological interventions that address the needs of low-income communities around the world. Offered by the Blum Center for Developing Economies.

developmentengineering.berkeley.edu

Master of Design

A three-semester program in design for emerging technologies that connects technical rigor, design theory and social practice and prepares students for a broad range of creative and technical roles. Offered by the College of Engineering and the College of Environmental Design.

design.berkeley.edu

Master of Engineering

A two-semester program combining engineering, business and leadership curricula with capstone projects in a chosen technical concentration. MEng degrees are offered through all seven engineering departments.

meng.berkeley.edu

Master of Engineering/Master in Business Administration

Designed to prepare students to become leaders in technological innovation in an array of different industries. It enables students to earn two master's degrees in the time it takes to complete just one, and at a lower cost than enrolling in each program separately.

engineering.berkeley.edu/mba-meng

Master of Molecular Science & Software Engineering

A remotely delivered, one-year, full-time program that prepares students for careers in computational science, data science, machine learning and software engineering. The program trains students with backgrounds in chemistry, physics, biology and computer science.

msse.berkeley.edu

Master of Design

A 10-month program offered in collaboration with UCSF that trains students in the technical, business and clinical aspects of bringing new medical technology from concept to clinical use.

uctranslationalmedicine.org

Research Opportunities

engineering.berkeley.edu/research-centers

Berkeley Engineering's research centers, institutes and labs promote cross-disciplinary collaboration to magnify impact on global challenges. Here, our faculty interact with industry colleagues and provide students with advanced training in cutting-edge fields.

Accelerators & Incubators

- Bakar Labs
- Berkeley SkyDeck
- Blockchain Xcelerator
- Cal Hacks Fellowship
- California Institute for Quantitative Biosciences (QB3)
- CITRIS Foundry
- Energy and Biosciences Institute Entrepreneurial Business Incubator (EBI2)
- SCET – Summer Venture Lab
- StEP

Alumni Networks

- BearX
- Berkeley Innovators
- Cal Alumni Association
- CalFounders
- Career Center
- UCB Startup Fair
- YC Co-Founder Matching @ SCET

Community

- Berkeley Changemaker
- Berkeley Discovery
- Innovation & Entrepreneurship Council

Competitions

- Big Ideas Contest
- Cal Hacks
- Collider Cup
- FastTracking Founders Program
- Nuclear Innovation Bootcamp
- Venture Capital Investment Competition

Inclusion

- Design Scholars Program
- EDGE in Tech Initiative at U.C.
- Funding to Black & Latinx Founders
- Inclusive Innovation Equitable Entrepreneurship
- Tory Burch Fellowship

Labs, Space & Prototyping

- Berkeley Startup Cluster
- Biomolecular Nanotechnology Center
- CITRIS Invention Lab
- Jacobs Institute for Design Innovation
- Marvell NanoLab
- ME Student Machine Shop
- QB3 Cell and Tissue Analysis Facility
- QB3 High-Throughput Screening Facility

New Venture Services

- Berkeley Master of Design
- Blum Center Social Innovator OnRamp
- Fung Fellowship
- Fung Institute for Engineering Leadership
- Learn2Launch
- Management, Entrepreneurship & Technology Program
- Master of Engineering program
- Neurotech Collider Lab
- SkyDeck ACE Intern Program
- Sutardja Center for Entrepreneurship & Technology

Admissions

engineering.berkeley.edu/grad-admissions

Submit your application for fall admission beginning in September. The majority of deadlines are in December, but check your specific program. For those who want to learn more about the process of applying to graduate school, outreach events and tools are available at:

engineering.berkeley.edu/grad-outreach

Regardless of the program you choose, our graduate students all receive a rigorous, interdisciplinary, globally aware education. Programs vary in units, completion time and requirements:

	Professional master's	M.S.	Ph.D.
Units	25-29	25-50	-
Time to complete	2-3 semesters	~2 years	5-6+ years
Type of degree	Professional	Academic	Academic
Key requirement	Experiential capstone project or internship	Thesis paper	Dissertation
Ideal for	Working in leadership & management roles in industry	Leads to Ph.D.; careers in research or academia	Careers in research or academia

Resources

Professional Development

GradPro helps UC Berkeley graduate students develop their skills, succeed in their programs and launch their careers. They support graduate students in exploring and preparing for the full range of diverse careers available, within and beyond academia.

engineering.berkeley.edu/ucb-gradpro

Wellness

UC Berkeley and the College of Engineering places our students' mental wellness front-and-center. Services and programs are offered at the college level, in addition to campus-wide resources.

engineering.berkeley.edu/wellness

Student Organizations

Berkeley Engineering is home to over 60 student organizations (12 graduate student-specific) that help members hone leadership skills, foster a diverse community, provide cultural support and give students an opportunity to pursue their passions.

engineering.berkeley.edu/teams

MYTH VS FACT

Myth	Fact
"I need a master's degree before I can apply to a Ph.D. program."	Not true! You can apply to a Ph.D. program with a bachelor's as well as a master's degree.
"GRE scores are required for graduate admissions."	Most of our programs have eliminated the GRE, but check the department website to confirm.
"Statement of purpose and personal statement are the same essay."	The statement of purpose should convince readers – the faculty on the selection committee – that you have solid achievements behind you that show promise for your success in graduate study. The personal statement provides a sense of you as a person. This is a good place to display your communication skills and discuss your ability to maximize effective collaboration.
"A Ph.D. is only for those who want to be professors."	Although many of our Ph.D. graduates pursue the professor track, many have skill sets that are highly valued across fields. Our alumni join R&D labs in both the private sector as well as national laboratories, consulting firms, public policy and the business sector, to name just a few.
"Research/academia are the main career paths for those with graduate degrees in STEM."	While advanced degrees can certainly prepare individuals for these paths, they also open doors to various other career options. STEM graduates are in demand in industries such as technology, healthcare, finance, data science, consulting and many others.

Funding

grad.berkeley.edu

Working toward obtaining your graduate degree at Berkeley is an exciting and challenging endeavor, but funding your graduate education shouldn't be your greatest challenge. Many options are available to help you pay for grad school.

External funding opportunities

- National Science Foundation (NSF)
- Cal Veteran College Fee Waiver
- Veterans Yellow Ribbon Program
- The Gates Millennium Scholars Program
- The GEM Fellowship Program
- The Fulbright Program
- Leo S. Rowe Pan American Fund Program
- The Mastercard Foundation Scholars Program

Other campus funding

- Conference travel grants
- Parent/Caregiver grants
- Research grants/fellowships (from institutes, centers and others)
- Training grant programs
- Check with your program for degree-specific funding awards
- Fellowship funding opportunities: engineering.berkeley.edu/ucb-grad-fellowships

UC Berkeley
Engineering

CONTACTS

College of Engineering
Graduate Student
Services
engineering.berkeley.edu/
admissions

UC Berkeley
Graduate
Admissions Office
grad.berkeley.edu/admissions

UC Berkeley
Visitor Services
visit.berkeley.edu

An accessible version
of this information is
available online at:
engineering.berkeley.edu/facts