ENGINEERING | Industry Guide

Overview

The Molecular Engineering major at UChicago features a rigorous and interdisciplinary curriculum that fosters critical thinking and equips students to address society's most complex technological challenges. Through Careers in Engineering, students gain practical experience via **design immersions, hands-on projects, personalized advising, networking events, and internships**—developing the skills necessary to drive impact across fields such as biotechnology, quantum engineering, chemical engineering, and beyond. UChicago Molecular Engineer students succeed in top advanced degree programs and industry careers. Over 40% of recent graduates accepted industry roles in positions such as R&D Engineer, Engineering Physicist, Research Assistant, and Laboratory Analyst.

FIRST THINGS FIRST

Get started with these resources and stay up-to-date on engineering events and internships!

- **Explore Metcalf opportunities in Handshake** to find paid, substantive internships around the world.
- **Sign up for Career Advancement's Engineering newsletter** to get regular updates on events and opportunities.
- **To subscribe to Career Advancement's events calendar**, copy this calendar feed URL and add to any calendar application. Contact Career Advancement with any questions.

GET STARTED

Short-term experiences are a great way to explore career paths, start building your resume, and meet mentors.

- **Job shadow** with an alum working in materials science, quantum, bioengineering, and more!
  - **Winter Break Job Shadowing (December 15-19):** Apply by Nov. 10
  - **Spring Break Job Shadowing (March 16-20):** Apply by Feb. 17
- **Apply for an Engineering career trek** to meet employers and learn about opportunities. Upcoming treks include trips to San Francisco, CA; Los Angeles, CA; and Beijing and Shanghai, China!
  - **Winter Break Treks (December 15-19):** Apply by Oct. 13
  - **Spring Break Treks (March 16-20)**: Apply by Jan. 20
- Sign up for a **Metcalf Clinic** to work on a 2-week employer project with a team of peers. Applications for the Winter Climate & Energy Clinic open Dec. 1 and close Jan. 11.
- Join the Fall Quarter **Trek to Argonne National Lab** to learn about the the various kinds of research being done at the facility and connect with researchers and recruiting team members. Applications open in October.

BUILD YOUR SKILLS

Whether you're a beginner or already have some research or professional experience, UChicago offers many resources to help you build your skills and stand out in the job market.

- **Get involved with research** and work with a faculty member specializing in your field of interest. Attend the **STEM Campus Research Workshop** on October 8 to learn more about finding a campus research opportunity
- **Join a engineering-focused student organization** such as **Engineering Fellows,** which provides tailored career programming to explore careers in engineering. Applications open on Sept. 29.
- Participate in the **National Lab Application Bootcamp** on Oct. 21 to learn how to develop your strongest application.
- **Learn skills** with UChicago courses or free resources liked LinkedIn Learning – desirable skills include data analysis/visualization, programming, research, and writing
- **Take classes** to build expertise in your specific areas of interests. Consider exploring Cellular Engineering, Polymer Synthesis, Energy Storage and Conversation Devices, or Quantum Computation.

GET EXPERIENCE

Get hands-on engineering experience by interning with UChicago employer partners such as:

- **Industry:** Abbott**,** Amazon, AOSense, Apple, AstraZeneca, Aurora Energy Research, BASF, Cargill, Google, HRL Laboratories, IBM, JP Morgan Chase, memQ, Merck, Meta, Pfizer, SpaceX, Thor Labs, Wildtype.
- **Government Agencies:** Department of Energy, Environmental Protection Agency, Federal Bureau of Investigations, National Institutes of Health, NASA
- **Research Institutions:** Argonne National Lab, CERN, Fermi Lab, Fred Hutch Cancer Center, Marine Biological Laboratory, MD Anderson Cancer Center, RISE DAAD, Salk Institute, Scripps Research Institute

FIND OPPORTUNITIES

There are many strategies to find jobs and internships, including applying for posted positions and creating your own opportunity through networking. These resources can help you find opportunities and networking contacts.

- **Attend employer information sessions** to network with recruiters
- **Get personalized support** from a Careers in Engineering adviser:
  - **Mary Kasper** brings a broad range of expertise spanning biomedical engineering and materials science, with professional experience in both early-stage startups and academic settings.
- **Sign up for industry newsletters** to get regular updates on opportunities in your area of interest
- **Use the UChicago Alumni Directory** and other tools like LinkedIn to reach out to alumni at your target employers

ENGINEERING

EVENTS

Fall Quarter
- Sept. 29 l Fall Career Fair
- Sept. 30 | UChicago Grad Programs Fair (4+1 Advanced Scholars program)
- Sept. 30 | Meet the UChicago Champions Employer Networking
- Oct. 8 | STEM Research Campus Employment Event
- Oct. 13 l Hack the Tech Recruiting Process
- Oct. 20l UChicago Space Network Panel
- Oct. 21 l National Lab Application Bootcamp
- Oct. 29 l Climate Frontiers Career Fair
- Nov. 3-4 l Chicago Quantum Summit
- Nov. 5 l Trek to Argonne National Lab
- Dec. 8 l Careers in Engineering Alumni Panel
- Dec. 15-19 | Winter Break STEM Treks to Beijing & Shanghai, China; Los Angeles, CA; San Francisco, CA
- Dec. 15-19 l Winter Break Job Shadowing

Winter Quarter
- Jan. 8 | Dine and Define Your Summer Plans
- Jan. 15 l STEM Career Fair
- Jan. 22 l Phoenix Biology Lab Night & BSCD Fellowships Information Session
- Feb. 2-13 l Climate & Energy Winter Metcalf Clinic
- Feb. 19 l Google Chicago Office Trek
- Feb. 25 l Quantum Employer Spotlight
- Feb. 27 | Careers in Chemistry Alumni Panel
- Mar. 16-20 | Spring Break STEM Treks including:
  - New York, NY - Climate & Energy
  - San Francisco, CA - Tech & AI
  - Boston, MA - Biological Sciences
  - Amsterdam, Netherlands - AI & Innovation
- Mar. 16-20 l Spring Break Job Shadowing

Spring Quarter
- Mar. 28-29 Uncommon Hacks Hackathon
- Mar. 30 | Engineering Lab Tours
- Apr. 6-17 l Climate & Energy Spring Metcalf Clinic
- Apr. 14 l World Quantum Day
- Apr. 28 l Internship Best Practices Workshop

UPCOMING DEADLINES

Fall Quarter
- Sept. 29 l Rural Innovation Challenge
- Oct. 8 l Fall Climate & Energy Metcalf Clinic
- Oct. 10 l Argonne National Lab Trek
- Oct. 13 l Winter Break Treks
- Oct. 24 l Engineering Fellows
- Nov. 3 l Fall Deadline: 4+1 Programs
- Nov. 10 | Winter Break Job Shadowing

Winter Quarter
- Jan. 11 l Winter Quarter Climate & Energy Metcalf Clinic
- Jan. 12 l UChicago Game Jam
- Jan. 12 l Winter Deadline: 4+1 Programs
- Jan.14 | Google's Chicago Office Trek
- Jan. 20 l Spring Break Treks
- Early Feb. | Institute for Climate and Sustainable Growth Summer Polsky Fellow Research Assistant Positions
- Feb. 17 | Spring Break Job Shadowing
- Early Mar. | Institute for Climate and Sustainable Growth Pre-Doctoral Fellowship

Spring Quarter
- Mar. 29 l Spring Quarter Climate & Energy Metcalf Clinic
- Apr. 3 l BSCD Fellowships
- Apr. 13 | Spring Deadline: 4+1 Programs
- Apr. 15 l Selective Career Cohorts
- May 17 l Summer Tech Showcase

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Major: Molecular Engineering
Minor: Energy and Water Resources
Involvement: Research on-campus, CLIME, NSBE, SME, Prototype for Success, Product Management Intern at TE Connectivity
Post-Graduation Plans: PhD Student at Stanford in Materials Science and Engineering

Jackson Swartz, AB'25
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Involvement: Research on-campus, research at Argonne National Lab, UChicago Writing Program, Kappa Delta Epsilon, University Jazz Ensemble
Post-Graduation Plans: Graduate Analyst at Aurora Energy Research