HENRY E. RIGGS SCHOOL OF APPLIED LIFE SCIENCES

Master of Engineering in Biopharmaceutical Processing
MEng

The MEng program is designed for individuals to bridge the gap between traditional undergraduate programs in life sciences and engineering and develop the skills required for a successful career in development and manufacturing for the biopharmaceutical industry. Students will gain these skills through a combination of coursework, workshops, hands-on training, internships, projects and research.

Team Design Project | TDP
All second year MEng students complete the capstone TDP, which provides students with real-world experience of taking a drug molecule candidate to full-scale production. Students work in teams to design a complete biomanufacturing process capable of producing commercial quantities of a drug product. Teams are guided by a panel of academic and industry experts. Each team works on a separate design project using industry best practice while applying innovative methods and technologies. At the end of the academic year, students present a report of their work at a session with KGI faculty and industry participants.

Highlights

Hands-on learning
Students benefit from active learning, laboratory classes, and summer internships

Meet the demand
The MEng program educates students to meet industry needs for a skilled workforce in biologics

Industry connection
Opportunities to develop a powerful network of senior academic and industry experts
**About the program**

**Year 1**
- Core courses combine to build basic skills in biopharmaceutical processing
- Foundational courses enhance knowledge not directly related to student’s undergraduate degree
- Fundamental courses in quality/regulatory, business, and science

**Summer**
Students choose one of the following options:
- Paid industry internship
- KGI research project

**Year 2**
- Courses designed to apply real-world skills and knowledge in emerging fields
- Advanced technical, management, and professional skill development courses
- Team Design Project to create an innovative solution to a bioprocess engineering design challenge

**What can I do with this degree?**

**Career options**
- Process development scientist and engineer
- Regulatory scientist
- Manufacturing science and technology (MS&T) specialist
- Process design engineer
- Process technology transfer and validation specialist
- Upstream–cell culture specialist
- Downstream–purification specialist
- Finished Product –formulation, filling, and lyo specialist
- Technology innovation specialist
- Project management
- Product and portfolio management

**Some employers of MEng graduates**
- Amgen
- Atara Bio
- Genentech
- Gilead
- Boehringer Ingelheim
- Abzena
- ThermoFisher Scientific
- FDA
- Astra Zeneca
- BioMarin
- Kite
- Allogen
- Takeda
- Satorius
- Ambrx
- Celltheon
- General Electric
- Catalent
- InstillBio
- Machine Bio
- Upside Foods
- Just Evotec Biologies
- GenVivo
- Allogen
- Broadley James
- And many more.

**How to apply**

**Dates and deadlines**

**Start terms:** Fall

**Application deadline:** December 15 (priority), rolling admissions thereafter

**Application requirements:**
- Completed online application
- Personal statement
- Resume
- Letter of recommendation
- Transcripts
- English language proficiency (TOEFL, PTE, IELTS, iTEP)
- $75 non-refundable application fee

**Admission interviews:**
- Phone
- Virtual
- On-campus

Admitted students are required to submit a $400 non-refundable enrollment fee to hold their spot in the program.

**Contact us**

Keck Graduate Institute

535 Watson Drive, Claremont, CA 91711

909.819.4KGI admissions@kgi.edu kgi.edu

For more information, please visit kgi.edu/meng

Revised 01/22/24