

**HENRY E. RIGGS SCHOOL OF APPLIED LIFE SCIENCES**

# Master of Engineering in Biopharmaceutical Processing

## MEng

The **MEng program** is designed for high-potential individuals to bridge the gap between traditional undergraduate programs in life sciences and engineering and the skills required for a successful career in development and manufacturing for the biopharmaceutical industry. Students will gain these skills via traditional seminars and lectures, workshops led by industry experts, practical hands-on lab courses, professional trainings, internships, individual and team projects, and independent and industry-led research projects.



**MEET THE DEMAND**

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



**HANDS-ON LEARNING**

Students benefit from active learning, laboratory classes, and summer internships



**INDUSTRY CONNECTION**

Opportunities to develop a powerful network of senior academic and industry experts

### About the Program

The MEng program is an intensive two-year program housed within the Amgen Bioprocessing Center (ABC) at KGI. The program is designed to train students to become bioprocess engineering professionals employed within the biopharmaceutical industry.

**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



**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.

## 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

### Employers of MEng Graduates



























## How to Apply

### Dates and Deadlines

**Start Term:** Fall

**Application Deadline:** January 15 (priority), rolling admissions thereafter

### Application Requirements

An online application form is required that contains questions about your personal and educational background. Additional requirements can be submitted along with your online application or separately:

- Personal Statement
- Resume
- Letter of Recommendation
- Transcripts
- Standardized Test Scores (GRE, MCAT, or GMAT)
- English Language Proficiency (TOEFL, PTE, IELTS, iTEP)
- \$75 non-refundable application fee

**Admission Interviews:** A phone, Skype, or on-campus interview is a requirement for admission. The Office of Admissions schedules individual interviews after an application is complete.

**Application Review:** The Admissions Committee is made up of faculty and senior administrators who will thoroughly and conscientiously review each application.

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

### Contact Us

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