

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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