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. 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.

Year 1

- Core and prerequisite courses are combined to build basic skills in biopharmaceutical processing
- Foundational knowledge varies depending on a student’s undergraduate degree
- Fundamental courses in quality/regulatory, business, and science

Summer

Students choose one of the following options:
- Paid Industry Internship
- Team Master’s Project (TMP)
- Independent Research

Year 2

- Courses designed to give students real-world skills and training in the biopharmaceutical industry
- 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 a marketable therapy. 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 & validation specialist
• Upstream – cell culture specialist
• Downstream – purification specialist
• Finished Product – formulation, filling & lyo specialist
• Technology innovation specialist
• Project management
• Product and portfolio management

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.

Top Companies of MEng Graduates

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<th>Amgen</th>
<th>Kite Pharma</th>
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<td>Atara Biotherapeutics</td>
<td>Abzena</td>
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<td>Allogene Therapeutics</td>
<td>Amphastar Pharmaceuticals</td>
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<td>Berkeley Lights</td>
<td>BioMarin Pharmaceutical</td>
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<td>Boehringer Ingelheim</td>
<td>Broadley James Corporation</td>
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<td>Cell Care Therapeutics, Inc.</td>
<td>FDA</td>
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<td>GE Healthcare</td>
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<td>GenVivo, Inc.</td>
<td>Gilead Sciences</td>
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<td>Machine Bio</td>
<td>Navigant Consulting</td>
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<td>Nohla Therapeutics, Inc.</td>
<td>Nuvera Life Science Consulting</td>
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<td>Sartorius Stedim Biotech</td>
<td>Takeda Pharmaceutical Company</td>
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<td>Teva Pharmaceutical Industries</td>
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