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.

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

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

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**

<table>
<thead>
<tr>
<th>Employer</th>
<th>Employer</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMGEN</td>
<td>ATARA BIO</td>
</tr>
<tr>
<td>Genentech</td>
<td>GILEAD Creating Possible</td>
</tr>
<tr>
<td>Boehringer Ingelheim</td>
<td>ABZENA</td>
</tr>
<tr>
<td>Takeda</td>
<td>Thermo Fisher SCIENTIFIC</td>
</tr>
<tr>
<td>SARTORIUS</td>
<td>FDA U.S. FOOD &amp; DRUG ADMINISTRATION</td>
</tr>
<tr>
<td>Sartorius</td>
<td>GE Healthcare</td>
</tr>
<tr>
<td>Celltheon</td>
<td>POSEIDA THERAPEUTICS</td>
</tr>
<tr>
<td>AstraZeneca</td>
<td>InstilBio</td>
</tr>
<tr>
<td>Catalent</td>
<td>MachineBio</td>
</tr>
<tr>
<td>Biologics</td>
<td>Broadley James</td>
</tr>
<tr>
<td>Catapult Biologics</td>
<td>Just</td>
</tr>
<tr>
<td>Biologics</td>
<td>Biologics</td>
</tr>
<tr>
<td>Allogene</td>
<td>Kite</td>
</tr>
<tr>
<td>Allogene</td>
<td>GenVivo</td>
</tr>
</tbody>
</table>

**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**

535 Watson Drive, Claremont, CA 91711
Phone: 909.607.8590 | Fax: 909.607.8086
Email: admissions@kgi.edu
Website: kgi.edu

- **Student Affairs**
  909.607.8896 | student_affairs@kgi.edu

- **Financial Aid**
  909.607.9928 | financial_aid@kgi.edu

- **International Students and Scholars**
  909.607.8586 | international@kgi.edu