

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

# Master of Engineering in Biopharmaceutical Processing

MEng Highlights

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.

**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

# 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.



# 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

 Giliead General Electric

 Boeringer Ingelheim Catalent

 Abzena InstillBio

· ThermoFisher Scientific

FDA

Astra Zeneca

BioMarin

Allogene

Kite

Takeda

Satorius

Ambrx

Celltheon

Machine Bio

Upside Foods

· Just Evotec Biologies

GenVivo

Allogene

· 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
- 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**

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