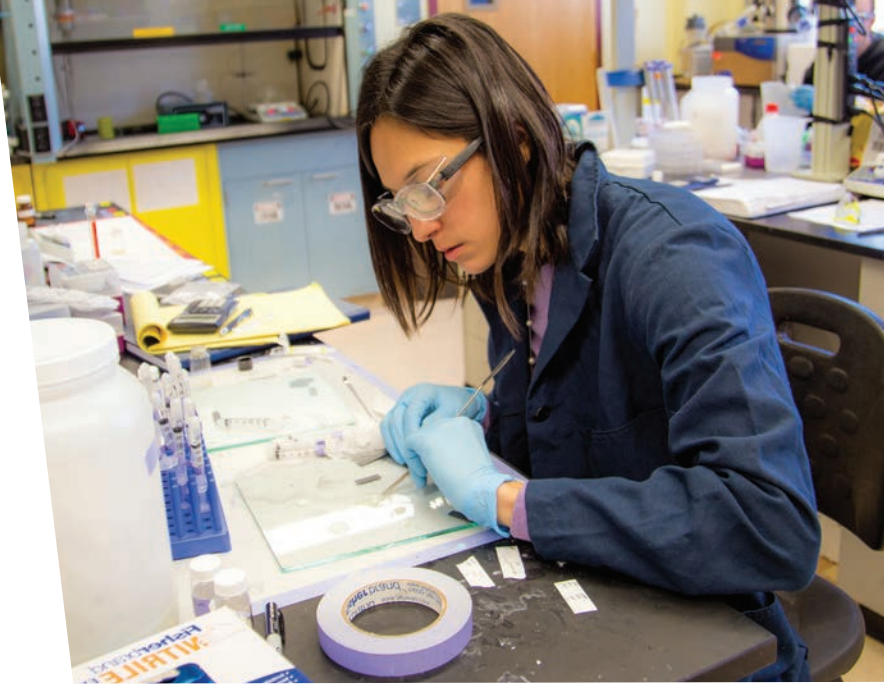


DEPARTMENT OF **CHEMICAL & BIOLOGICAL ENGINEERING**

CHEMENG.MINES.EDU



PROGRAM SCOPE

Chemical and biological engineering combines biology, chemistry, math and physics into engineering fundamentals relating to how materials are produced and processed, in the lab and in industrial-scale facilities.



FIELD SESSIONS

Our emphasis on active learning is demonstrated within the Unit Operations Laboratory sequence taken as a six-week “field session” in the summer. Here, the fundamentals of heat, mass and momentum transport and applied thermodynamics are reviewed in a practical, hands-on setting.

STUDENT INVOLVEMENT

Chemical engineering is a dynamic field of study that applies to many different industries. Our students have opportunities outside of the classroom to work on interdisciplinary teams and compete at a national level.



American Institute of Chemical Engineers

- National Chem-E Car Competition
- Lunch & Learn with industry leaders
- Opportunities to attend the national AIChE meeting

AREAS OF STUDY

Undergraduate students complete a program of study that includes rigorous instruction in fluid mechanics, heat and mass transport, thermodynamics, reaction kinetics and chemical process dynamics and control.

DEGREE

- ✓ **Chemical Engineering**
Bachelor's, master's and PhD offered

MINORS

- + **Biomedical Engineering**

TRACKS

- ▶ **Biological Engineering**
- ▶ **Process Engineering**

COMBINED DEGREE PROGRAM

- ✦ The department offers the opportunity to begin work on a master of science degree while completing a bachelor's degree.



AVERAGE STARTING SALARY
FOR B.S. GRADS FROM 2016-17 **\$66,865**

69% PLACEMENT OUTCOMES WITHIN
THREE MONTHS OF GRADUATION