The Mines chemistry graduate program offers a thesis-based PhD in applied chemistry and non-thesis and thesis MS options in chemistry. The department maintains a high-quality, well-funded research program, with student participation at both the graduate and undergraduate level. The research program in the department emphasizes interdisciplinary approaches to solving real world problems in areas such as sustainability, alternative energy, materials, bio-detection, nanomedicines and water quality assessment.

DEGREE OPTIONS

- **Doctor of Philosophy**: 72 credit hours, comprised of at least 18 credit hours of course work and at least 24 credit hours of thesis research. Doctoral students must pass the comprehensive exam and successfully defend a satisfactory thesis.
- **Master of Science** (thesis based): 36 credit hours, comprised of at least 24 credit hours of course work (15 of which must be taken at Mines).
- **Master of Science** (non-thesis): 30 credit hours, comprised of 24 credit hours of coursework and 6 credit hours of independent study.
RESEARCH AREAS

- Analytical and bioanalytical chemistry
- Biochemistry
- Energy
- Environmental chemistry
- Inorganic and nano chemistry
- Materials chemistry
- Organic and polymer chemistry
- Physical and computational chemistry
- Radiochemistry

FINANCIAL AID

Students in thesis-based degree programs are generally supported by research and teaching assistantships both during the academic year and during the summer. In addition to paying a monthly stipend, the assistantships cover tuition, health insurance, and all mandatory student fees.

APPLICATION INFORMATION

- An undergraduate degree in Chemistry or closely related subject is highly recommended. Students without an undergraduate degree in Chemistry may need to complete undergraduate deficiency requirements.
- The department has no minimum GPA requirement.
- The Graduate Record Examination (GRE) is required.

ACCEPTING APPLICATIONS

TO LEARN MORE, VISIT:
gradprograms.mines.edu/ch or contact chemistry@mines.edu