The Mines geophysics graduate program prepares students to be regarded as effective practitioners addressing earth, energy and environmental problems using geophysical techniques. With 12 full-time faculty members and small class sizes, students receive individualized attention in a close-knit environment. Given the interdisciplinary nature of geophysics, the graduate curriculum requires students to become thoroughly familiar with geological, mathematical and physical theory, in addition to exploring the theoretical and practical aspects of the various geophysical methodologies.

**DEGREE OPTIONS**

- **Doctor of Philosophy**: 72 credit hours, comprised of at least 36 credit hours of coursework, at least 12 credit hours of coursework in a minor program of study and at least 24 credit hours of thesis research.

- **Master of Science (thesis based)**: 30 credit hours, including 12 credit hours of required technical and professional development courses, 6 credit hours of dissertation/research and 12 additional credit hours of coursework.

- **Master of Science (non-thesis)**: 30 credit hours, comprised of 12 credit hours of required courses and 18 credit hours of additional course credits.
RESEARCH EMPHASIS

The Department of Geophysics conducts research in a wide variety of areas that are related, but not restricted to, applied geophysics. A list of the recognized research groups operating within the department are given below.

- The Center for Wave Phenomena
- The Reservoir Characterization Project
- The Center for Gravity, Electrical and Magnetic Studies
- The Electromagnetic Resource Exploration Group
- Global seismology
- Hydrogeophysics and porous media
- Rock physics

APPLICATION INFORMATION

- GRE scores sent by the Educational Testing Service. The average applicant GRE score is 162 quantitative, 153 verbal and 4.0 analytical.
- For international applicants or applicants whose native language is not English, a TOEFL score of 79 or higher (or 550 for the paper-based test, 213 for the computer-based test) is required. In lieu of a TOEFL score, an IELTS score of 6.5 or higher will be accepted.
- Statement of purpose and updated curriculum vitae or resume.
- Applicants must submit a minimum of three letters of recommendation and transcripts for all post-secondary degrees.

DOMESTIC APPLICATION DEADLINE: January 1 (Fall), October 1 (Spring)
TO LEARN MORE, VISIT:
gradprograms.mines.edu/gp or contact geophysics@mines.edu