The Mines geophysics graduate program prepares students to become effective practitioners and researchers who address 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, diverse 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 a suite of professional development 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 thesis research and 12 credits of additional coursework

- **Master of Science (non-thesis)**: 30 credit hours, comprised of 12 credit hours of required technical and professional development courses and 18 credit hours of additional coursework.
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.

- Center for Wave Phenomena
- Reservoir Characterization Project
- Center for Rock and Fluid Multiphysics (CRFM)
- Electromagnetic Resource Exploration Group
- Global seismology
- Hydrogeophysics and porous media
- Center for Gravity, Electrical and Magnetic Studies

APPLICATION REQUIREMENTS

- Statement of purpose and updated curriculum vitae or resume.
- A minimum of three letters of recommendation and transcripts for all post-secondary degrees.
- 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.

ACCEPTING APPLICATIONS

TO LEARN MORE, VISIT: gradprograms.mines.edu/gp or contact geophysics@mines.edu