Mines' Robotics graduate program offers a core curriculum focused on robotic perception, cognition, action and interaction, with technical electives in computer science, mechanical engineering and electrical engineering. Students will graduate from the program with the top-notch skills required for work in advanced industries and help turn science fiction into reality. With the prevalence of automation and self-guided technology on the rise, Mines’ expertise in field robotics provides professionals with the skills and knowledge to take this technology to the next level.

**DEGREE OPTIONS**

- **Doctor of Philosophy**: 36 credit hours of coursework, 36 credit hours of research and a doctoral dissertation.
- **Master of Science (thesis based)**: 30 credit hours comprised of 21 credit hours of coursework and 9 credit hours of thesis research.
- **Master of Science (non-thesis)**: 30 credit hours of coursework.
- **Graduate Certificate**: 12 credit hours of coursework.
FOCUS AREAS

The program enables students to study across multiple focuses in a residential setting. Students will take core classes covering multiple areas and will achieve depth in selecting technical electives to gain knowledge in a subspecialty research area.

- Perception
- Cognition
- Action
- Interaction & Society

APPLICATION INFORMATION

- The Graduate Record Examination (GRE) is required. Applicants who have graduated with a computer science, engineering or math degree from Mines within the past five years are not required to submit GRE scores.
- 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.
- Students are expected to have completed two semesters of calculus, along with courses in linear algebra, data structures and upper-level courses in at least three of the following: analysis of algorithms, software engineering, numerical analysis, principles of programming languages, computer architecture, operating systems, dynamics and controls.

ACCEPTING APPLICATIONS

FOR MORE INFORMATION, VISIT:
gradprograms.mines.edu
or contact Neil Dantam (ndantam@mines.edu)