DEPARTMENT OF 
ELECTRICAL ENGINEERING

ELECTRICAL.MINES.EDU

PROGRAM SCOPE
The Department of Electrical Engineering at Mines produces future leaders who serve the profession, the global community and society. In addition to the ABET-accredited undergraduate curriculum, students attain technical expertise by completing course work and projects reflective of modern technology trends, while considering the broader impacts of engineering solutions on society and human lives.

97% GRADUATES WITH POSITIVE OUTCOMES*  $76,265 AVERAGE STARTING SALARY*  25:1 STUDENT TO FACULTY RATIO

AREAS OF STUDY
Students have access to modern technology and advanced laboratories. They are supported by faculty advisors who clarify engineering principles and help select technical electives best aligned with career goals.

DEGREES

- Electrical Engineering
  Bachelor’s, master’s and PhD

- Combined BS+MS

MINORS

- Electrical Engineering

INTERNSHIP & CAREER OPPORTUNITIES
With a wide variety of career opportunities available, students and graduates are in charge of their future:

- Renewable energy
- Antennas and aerospace
- National Government Organizations
- Law
- Intelligence and data managements
- Systems engineering and manufacturing
- Engineering consulting
- Utility industry
- Computer industry
- Microwave and RF industry

*Per 2019-20 Mines Career Center Outcomes Survey

EMPHASIS AREAS

ENERGY SYSTEMS & POWER ELECTRONICS
This area encompasses a broad spectrum of electrical energy applications including investor-owned utilities, rural electric associations, manufacturing facilities, regulatory agencies, national laboratories, government agencies and consulting engineering firms.

INFORMATION SYSTEMS & SCIENCES
Interdisciplinary area encompassing the fields of control systems, signal and image processing, compressive sensing and optimization.

ANTENNAS & WIRELESS COMMUNICATIONS
This area relates to the design of antennas, antenna arrays and microwave and RF devices for communications and sensing applications.

INTEGRATED CIRCUITS & ELECTRONIC SYSTEMS
This area involves analysis and design of analog and digital circuits to solve practical problems in communications, robotics and control.