The University of Alberta’s Faculty of Engineering ranks in size among the top five percent of more than 400 engineering schools in North America, with about 4,000 undergraduate and 1,600 graduate students.

It offers 21 engineering programs as well as Canada’s second-largest Engineering Co-op Program, with more than 1,400 paid student placements per year. All of our degree programs are fully accredited by the Canadian Engineering Accreditation Board.

The Department of Chemical and Materials Engineering (CME) is part of the University of Alberta’s Faculty of Engineering. Engineering has been taught at the U of A since it was founded in 1908. The first three graduates in Chemical Engineering graduated in 1928. In 1996, nine Materials faculty members joined the department, which resulted in the first Department of Chemical and Materials Engineering in Canada. To this day, the department continues to grow as one of the largest in North America.

CME Faculty Members awards and recognitions:

- Medal for Distinction in Engineering Education Engineers Canada
- National Sciences & Engineering Research Council Industrial Research Chairs
- Rutherford Awards for Excellence in Undergraduate Teaching
- Canada Research Chairs, Canada Excellence Research Chair
- Excellence in Education Awards from the Association of Professional Engineers and Geoscientists of Alberta
- Provost’s Awards for Early Achievement of Excellence in Undergraduate Teaching
- Fellowships in Scientific Societies

CME is home to:

- Institute for Oil Sands Innovation
- Canadian Centre for Clean Coal/Carbon and Mineral Processing Technologies
- Canadian Centre for Welding and Joining
- The David and Joan Lynch School of Engineering Safety and Risk Management

This information was accurate at the time of printing - 09/2017
The Department of Chemical and Materials Engineering at the University of Alberta is the largest and one of the finest graduate programs in Canada. With a global reputation for scholarship, research with a social purpose, and diversity, we offer unlimited opportunities for advanced education and research leading to Masters of Science (MSc) and Doctor of Philosophy (Ph.D.) degrees in Chemical Engineering, Process Control, and Materials Engineering. We also offer a Master of Engineering (MEng) program and a joint Master of Business/Master of Engineering (MBA/MEng) degree is also offered in cooperation with the School of Business.

Research

Our Department has over 50 professors and close to 400 graduate students from all over the world, making for a strong and diverse research program.

Research Specialities Include:

- **Process Control and Systems Engineering**
  - Including advanced predictive control, optimization, modelling, identification and estimation and, monitoring and fault diagnosis and detection

- **Reaction Engineering and Catalysis**
  - Including structured catalyst synthesis and characterization, bimetallic catalysts, and reaction mechanism and kinetics development

- **Surface Interfacial Science and Engineering**
  - Including the characterization of interfaces, thermodynamics, complex fluids and, the development of nonfunctional materials

- **Materials Science Engineering**
  - Including nanomaterials, biomaterials, polymers, ceramics, composites and, metallurgy

- **Biochemistry and Biomedical Research**
  - Including synthetic biology, bone/tissue regeneration, biosensing and, tissue engineering

Full Time Students

- Thesis-based
- Fully funded
- Professional Development - Work with award-winning professors, including:
  - Industrial Research Chairs
  - Canada Research Chairs
  - Endowed Chairs

Scholarships

- DB Robinson Graduate Scholarship in Chemical and Materials Engineering.
- Coal Mining Research Company Graduate Scholarship
- Jacob H Masliyah Graduate Award in Oil Sands Engineering
- Lehigh Hanson Materials Limited Graduate Scholarship in Environmental Studies
- And more...