ABOUT THE DEPARTMENT

The bridge between Medicine and Engineering – In Biomedical Engineering, researchers actively develop and apply engineering advances directly to patients in collaboration with medical practitioners.

Home to a dedicated, state-of-the-art Magnetic Resonance Imaging (MRI) facility – Unique within Canada, the Peter S. Allen MR Research Centre has three MRI systems for human imaging (field strengths: two 3 T and 4.7 T), all located inside the University Hospital. The facility was expanded in 2015 through a $17.5M grant anchored by the Canada Foundation for Innovation.

Professors directly affect patient care and industry practice – The work being done in the Department is making a difference in people’s lives through engineering advances in nanostructured biomaterials and MRI for neurological, psychiatric and cardiovascular diseases.

Focused on mentorship – Eight core professors and 40 adjunct professors from across campus are available to supervise graduate students.

FUNDING

Each graduate student receives financial support through research assistantships provided by the supervisor's research grants. Graduate students are also encouraged to apply for external scholarships and awards.

DEPARTMENTAL APPLICATION DEADLINES

Canadian applicants:
July 1 for September (Fall) Admission
November 1 for January (Winter) Admission

International applicants (including applicants within Canada applying for a study permit):
April 30 for September (Fall) Admission
July 30 for January (Winter) Admission

CONTACT US

Department of Biomedical Engineering
Department of Biomedical Engineering
13-203 Donadeo Innovation Centre for Engineering,
9211-116 Street NW,
Edmonton Alberta
Canada T6G 1H9

Phone: 780-492-2541
Email: bmegrad@ualberta.ca
ABOUT THE DEPARTMENT

Home to three major research centres – The Canadian Centre for Clean Coal/Carbon and Mineral Processing Technologies (C5MPT), the Canadian Centre for Welding and Joining (CCWJ) and the Institute for Oil Sands Innovation (IOSI).

Research prowess – More than 50 faculty members hold in excess of 25 prestigious provincial, national and international research awards and chair positions, including six NSERC Industrial Research Chairs, four Canada Research Chairs, and a Canada Excellence Research Chair.

Partnerships with local companies – Research partnerships mean graduate students can spend extended periods at industrial sites. Industrial participation in graduate training allows graduates to transition seamlessly into industry or entrepreneurial endeavours.

Collaboration with the National Institute of Nanotechnology (NINT) – Researchers work closely with the National Institute of Nanotechnology (NINT), a joint venture with the National Research Council Canada (NRC) that hosts world-leading nanotechnology facilities and research programs.

Focused on teaching and learning – Faculty members prioritize mentoring and teaching: CME faculty members hold numerous teaching awards including the Engineers Canada Medal for Distinction in Engineering Education and the APEGGA Excellence in Education Award.

Home to the Engineering Safety and Risk Management Program – The first of its kind in Canada.

RESEARCH STRENGTHS

Biochemical Engineering
Biomedical and Regenerative Medicine
Corrosion and Wear
Fluid Dynamics
Materials Characterization and Processing
Mathematical and Molecular Modeling
Nanomaterials and Nanofabrication
Oil Sands Energy
Process Control and Systems Engineering
Reactions and Catalysis
Surface Science and Interfacial Engineering
Thermodynamics
Welding and Metallurgy
FUNDING

The department provides financial support for full-time PhD and MSc students through teaching assistantships, research assistantships and scholarships. Graduate students are also encouraged to apply for external funding through scholarships and awards.

DEPARTMENTAL GRADUATE APPLICATION DEADLINES

Canadian/Permanent Resident applicants:
August 15 for September (Fall) Admission
December 1 for January (Winter) Admission

International applicants:
April 1 for September (Fall) Admission
October 1 for January (Winter) Admission

CONTACT US

Chemical and Materials Engineering
12-203 Donadeo Innovation Centre for Engineering,
9211-116 Street NW,
Edmonton Alberta
Canada T6G 1H9

Phone: 780.492.3321
Email: chemmat@ualberta.ca
ABOUT THE DEPARTMENT

The largest Civil Engineering graduate program in Canada – Our program boasts more than 500 graduate students from over 40 countries.

Industrial partnerships that support student learning – We have built strong relationships with local, national and international organizations, including PCL Construction, Syncrude Canada, Suncor, Shell, CN, CP, CNRL, Teck and BP.

Program breadth – We offer graduate studies in eight areas of specialization: Construction Engineering and Management, Environmental, Geotechnical, Petroleum, Mining, Structures, Transportation and Water Resources Engineering.

Home to internationally recognized research leaders – Our faculty includes seven NSERC Industrial Research Chairs, the Canada Research Chair in Natural Resources Uncertainty Management, and Endowed Chairs in nanofibre research, steel structures, and masonry systems.

Home to the new Canadian Rail Research Laboratory (CaRRL) – CaRRL works to address key challenges in the Canadian rail sector, including: safety and security, long travel distances, sparse population, and extreme climates.

RESEARCH STRENGTHS

Advanced and Smart Materials
Construction Engineering Simulation
Cold Region and River Ice Engineering
Emerging Technology in Nanocellulose Fibres
Enhanced Oil/Heavy-Oil Recovery
Oil Sands Tailings Management
Petroleum Geomechanics
Road Infrastructure and Underground Trenchless Technology
Slope Stability and the Cyclic Loading Of Embankments
Safety and Intelligent Transportation Systems
Water and Wastewater Treatment
Structural Health Monitoring and Modeling
Human Biomechanics
Oil sand and oil reservoir simulation research
Geostatistics in Mining Engineering
Building Engineering (Join program with MEC)

www.civil.engineering.ualberta.ca/Graduate.aspx
FUNDING

Financial assistance is available for students enrolled in thesis-based degrees. Students are encouraged to apply for scholarships, which will reduce workload resulting from teaching or supplemental research duties. Assistantships are available to both Canadian and foreign students.

DEPARTMENTAL APPLICATION DEADLINES

Canadian/Permanent Resident applicants:
July 1 for September (Fall) Admission
October 30 for January (Winter) Admission

International applicants
(this includes applicants within Canada applying for a study permit):
April 30 for September (Fall) Admission
July 31 for January (Winter) Admission

CONTACT US

Department of Civil and Environmental Engineering
School of Mining and Petroleum Engineering
7-207 Donadeo Innovation Centre for Engineering
9211 – 116 Street
Edmonton, Alberta, Canada T6G 1H9

Phone: (780) 492-4235
Email: cgradvis@ualberta.ca

www.civil.engineering.ualberta.ca/Graduate.aspx
ABOUT THE DEPARTMENT

State-of-the-art facilities – We have top-notch facilities in all areas of Electrical and Computer Engineering, including the nanoFAB, a 600 m2 nano- and micro-fabrication facility with capabilities unique in Canada.

Internationally recognized faculty members – The Department maintains active international collaborations, including close ties to the National Institute of Nanotechnology (NINT) located on the University of Alberta campus. These collaborative relationships give students access to many top national and international research facilities.

Strong research output – Our faculty members and their students have published the largest number of peer-reviewed publications of any Electrical and Computer Engineering department in Canada (2006 to 2012). Many of those publications are in prestigious journals such as IEEE Transactions, Physical Review Letters, Nature and Science.

Partnerships with industry – Our relationships with industry partners give graduate students the opportunity to work in real-world scenarios and build their networks. Motivated students have been supported in starting successful spin-off companies.

Outstanding graduate students – Many of our graduate students have earned prestigious academic, research and leadership awards, such as Vanier Canada Graduate Scholarships, Izaak Walton Killam Memorial Scholarships and Andrew Stewart Memorial Graduate Prizes.

RESEARCH STRENGTHS

- Biomedical Engineering
- Communications
- Computer Engineering
- Control Systems
- Electromagnetics and Microwaves
- Energy Systems
- Integrated Circuits and Systems
- Microsystems and Nanodevices
- Photonics and Plasmas
- Signal and Image Processing
- Software Engineering and Intelligent Systems
- Solid State Electronics

www.ece.engineering.ualberta.ca/Graduate.aspx
FUNDING

The Department provides financial support to graduate students through research and teaching assistantships and scholarships. All applicants are automatically considered for these awards during the review of their application. Graduate students are also encouraged to apply for external scholarships and awards.

DEPARTMENTAL APPLICATION DEADLINES

Canadian applicants:
July 1 for September (Fall) Admission*
November 1 for January (Winter) Admission*
*However, applications will be accepted until positions are filled.

International applicants (including applicants within Canada applying for a study permit):
April 30 for September (Fall) Admission
July 30 for January (Winter) Admission

CONTACT US

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11-203 Donadeo Innovation Centre for Engineering
9211 – 116 Street NW
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(Nona McDonagh, Graduate Admissions Advisor) or
ivan.fair@ualberta.ca
(Dr. I. Fair, Associate Chair Graduate Studies)

www.ece.engineering.ualberta.ca/Graduate.aspx
ABOUT THE DEPARTMENT

A top Canadian School for Mechanical Engineering education – The Department of Mechanical Engineering at the University of Alberta is among the most productive, recognized, well-funded and reputable Mechanical Engineering Departments in Canada.

An internationally recognized faculty – Department faculty include two Endowed Research Chairs, a Canada Research Chair, three NSERC Industrial Research Chairs, two CSME Fellows, an ASME Fellow, two Engineering Institute of Canada Fellows, and an American Association for Aerosol Research Fellow.

A focus on graduate student mentorship and education – Our goal is to prepare students to meet the demands of academia and industry in a well-supported, collegial and interdisciplinary environment.

At the forefront of innovation, research and scholarship – Our academics have established industrial and international collaborations that focus on real-world issues and improve graduate student training in areas crucial to the Canadian and world economies.

World-class facilities and equipment – Our state-of-the-art testing, computational and production infrastructures serve our research community and beyond.

Located at the gateway to the north – Edmonton is the gateway to the tremendous opportunities in oil and gas, and home to one of the fastest growing, most vibrant economies in the world.
FUNDING

Applicants seeking financial support must negotiate funding with their supervisor before being granted acceptance. Financial support is provided through research and teaching assistantships. Graduate students are also encouraged to apply for external scholarships and awards.

DEPARTMENTAL APPLICATION DEADLINES

Canadian applicants:
June 30 for September (Fall) Admission
October 30 for January (Winter) Admission

Applicants from Nigeria, Iran and the People’s Republic of China:
March 15 for September (Fall) Admission
July 15 for January (Winter) Admission

Other International applicants:
May 15 September (Fall) Admission
September 15 for January (Winter) Admission

CONTACT US

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