Graduate Student Opportunity – 8 PhD positions – Sep. 2024

Funding is available for excellent and highly motivated candidates to pursue a PhD degree starting September 2024 at the University of Alberta in Edmonton or Laurentian University in Sudbury. Eight positions are open. Applicants should have:

- Undergraduate and Master's degrees from reputable Universities,
- Strong background with high GPA in:
  - Mining Engineering,
  - Mechanical Engineering,
  - Industrial Engineering,
  - Computing Science, or
  - Operations Research.
- Fluent in English, High TOEFL or IELTS scores,
- Reasonable publication track record for PhD applicants,
- Proficiency in computer programming and databases.
- Experience in mathematical programming is an advantage,
- Experience with discrete-event simulation is an advantage.

Mining Optimization Laboratory (MOL) research focuses on two major areas:

- Simulation - Optimization of Mining Systems.
- Mine Planning Optimization and Design.

MOL research focuses on using operations research and advanced analytical methods such as mathematical modeling, optimization, discrete event/continuous simulation, and intelligent agents to arrive optimal or near-optimal solutions to complex, large-scale mine planning/operations decision-making problems.

Please submit a complete package including the following documents to the potential supervisor – requests with missing documents will not be evaluated:

- An official transcript issued to you by the post-secondary institution.
- A literal English translation of transcripts in languages other than English must be provided by the issuing institution or by a certified translator.
- A Degree Certificate must include the date of conferral, the registrar's signature, and a post-secondary institution stamp or seal.
- Three (3) academic references are required from academic staff members capable of assessing the applicant's academic and research ability. At least two academic references are mandatory and a maximum of one (1) professional (work) reference is allowed.
- References are requested via the web application by the applicant and are uploaded directly to the application by the referee. No hardcopies are required.
- Official English Language Proficiency scores (if applicable) such as TOEFL (Academic), IELTS (Academic), MELAB, PTE or CAEL.

Five PhD positions available at the School of Mining and Petroleum Engineering
Department of Civil and Environmental Engineering
University of Alberta, Edmonton, Canada
Supervisors: Drs. Yashar Pourrahimian and Hooman Askari
contact: yashar.pourrahimian@ualberta.ca

Two PhD positions available at the Department of Mechanical Engineering
University of Alberta, Edmonton, Canada
Supervisors: Drs. Milad Nazarahari and John Doucette
contact: nazaraha@ualberta.ca

One PhD position available at Bharti School of Engineering and Computation Science
Laurentian University, Sudbury, Canada
Supervisor: Dr. Eugene Ben-Awuah
contact: ebenawuah@laurentian.ca

It is strongly recommended that you submit your applications as soon as possible. We thank all applicants for their interest; however, only those individuals selected for an interview will be contacted.

General guidelines for submission of an application could be found at:

https://www.ualberta.ca/engineering/civil-environmental-engineering/graduate-programs/how-to-apply/index.html