



Graduate Student Opportunity – January 2022

Mining Optimization Laboratory (MOL)

School of Mining and Petroleum Engineering
Department of Civil and Environmental Engineering
University of Alberta, Edmonton, Canada

Funding is available for excellent and highly motivated candidates to pursue a PhD degree starting January 2022s at the University of Alberta. Two positions are open. Applicants should have:

- Undergraduate and Master's degrees from reputable Universities,
- Strong background with high GPA in:
 - Mining Engineering,
 - Industrial Engineering,
 - Computing Science, or
 - Operations Research.
- Fluent in English, High TOEFL (600 & above) or IELTS scores,
- Reasonable publication track record for PhD applicants,
- Proficiency in computer programming and databases in MATLAB, SQL, Python.
- Experience in mathematical programming & simulation is an advantage,
- Experience with DES simulation in Arena or Anylogic is an advantage.
- Experience with CPLEX or GUROBI is an advantage.

MOL is a research consortium directly sponsored by industry members who exclusively receive research results. 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.

For more information visit our website at: <http://www.ualberta.ca/MOL/>

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. Please send your resume to: hooman@ualberta.ca

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