



Graduate (M.Sc. and Ph.D.) Student Positions in Earth Sciences

Toward an Integrated Genetic Model for the McIlvenna Bay Cu-Zn(-Ag-Au-Pb) Deposit, East-central Saskatchewan

Two graduate (one M.Sc. and one Ph.D.) research projects are available to eligible students **commencing Spring 2024**. The projects will be undertaken through a funded industry-university partnership that will provide students with exceptional opportunities to obtain industry training and experience while simultaneously pursuing their graduate degrees. Students will work directly with Foran Mining Corporation (Foran) personnel at the McIlvenna Bay Cu-Zn(-Ag-Au-Pb) deposit (MBD), which is currently in the development phase, and will complete their graduate studies in Earth Sciences at the University of Windsor (UWindsor). Project summaries are presented below.

Project 1 (M.Sc.) – Characterization of MBD mineralization including integrating field, mineralogical, and chemical data to identify principle lithologic units and metamorphic grade, characterize the nature and relative timing of ore/alteration/deformation stages, and determine key mineralogical/elemental/structural indicators of mineralization.

Project 2 (Ph.D.) – Characterization of MBD host rock lithogeochemistry and mineralization processes to identify the relationship between metal enrichment and minerals (primary and secondary), structures, and deformation. This will include integration of field data, petrographic and chemical/isotopic analysis, water/rock reaction modeling, and structural analysis.

Students will split their time between working at the MBD project site as a fully integrated member of the Foran mine development project team and undertaking their studies at UWindsor. Students will receive vertically integrating training ranging from core logging/field mapping to petrographic/laboratory analysis to advanced data analytical techniques (e.g., ore block and water/rock reaction modeling). Collectively, the two projects will contribute to development of a genetic model for the mineralization that will guide ongoing development of the MBD mine.

About the University of Windsor

The [University of Windsor](#), located in Canada's southernmost city, is a medium-sized, comprehensive, student-focused university. The [School of the Environment](#) is home to the research-based, graduate degree program in Earth Sciences, which is supported by 24 faculty and staff and World-class [research facilities](#). Qualified students interested in applying to the Earth Sciences graduate program would do so through the [Faculty of Graduate Studies](#).

About Foran Mining Corporation

[Foran](#) is a leader in resource development to support global decarbonization through carbon neutral critical metal production. The [MBD mine project](#) comprises the largest, undeveloped volcanic-hosted massive sulphide deposit in the prolific Flin Flon greenstone belt. The MBD mine, which is currently in the development phase, is designed to incorporate the latest technological advances for safer, more efficient, and carbon neutral critical metal operation.

Interested students should respond to **Dr. Joel E. Gagnon** (jgagnon@uwindsor.ca). **Students that are residents of Saskatchewan or from underrepresented groups, particularly Indigenous students, are strongly encouraged to apply.**