

CAREERS & RESEARCH

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| Job Title: | MERC-Kinross MSc Project – Metamorphic P-T-t and Fluid History at Great Bear Project |
| Job ID: | #2023-01 |
| Project Description | MERC, in partnership with Kinross Gold, is seeking a MSc student to undertake a research project of the P-T-t-fluid history of metamorphism across gold-bearing structures, at Kinross’ Great Bear project in Red Lake . Amphibolite and greenschist facies metamorphic assemblages are developed in host rocks that contain shear zones and structures hosting Au mineralization and understanding the metamorphic history in terms of P-T-t-fluid (pressure-temperature-time-fluid) conditions are of interest. The main objectives of this research project are to constrain the number of metamorphic events, the spatial variability of P-T-t-fluid conditions, determine whether significant dehydration and decarbonation reactions occurred at temperatures high enough to mobilize Au in favorable rock types, and determine if there are metamorphic discontinuities across major structures. The research includes investigation and sampling of available drill core, whole rock geochemistry, mineral geochemistry (SEM, EPMA, and LA-ICPMS), phase equilibrium modelling, and metamorphic geochronology (LA-ICPMS on metamorphic accessory-phases and garnet geochronology). The project is funded through a partnership with Kinross Gold and NSERC and will be supervised by Dr. Doug Tinkham, Dr. Bruno Lafrance, and the Kinross Gold technical team. |
| MERC | Laurentian University’s Mineral Exploration Research Centre (MERC) in Sudbury, Ontario, Canada, conducts and promotes global, collaborative, lab- and field-based research focused on mineral deposits, exploration, and targeting. MERC hosts internationally recognized projects and researchers from academia, industry, and government. Together, faculty members, research scientists, and graduate students focus on mineral deposits, Precambrian geology, and exploration methodology and targeting. MERC also leads Canada’s Metal Earth project, which is one of the largest university-led public geoscience projects in the world. https://merc.laurentian.ca/ |
| Kinross Gold | Founded in 1993, Kinross Gold is a senior gold mining company with a diverse portfolio of mines and projects in the United States, Canada, Brazil, Chile, and Mauritania. Headquartered in Toronto, Canada, Kinross is focused on delivering value through operational excellence, balance sheet strength, disciplined growth, and responsible mining. https://www.kinross.com/ |
| Funding | MERC MSc projects are fully funded for two years and include complete field and analytical support. |
| Laurentian University | Laurentian University is located within the territory of the Robinson-Huron Treaty of 1850 and recognizes its placement on the traditional lands of the Atikameksheng Anishnawbek, as well as its proximity to Wahnapiet First Nation. As Canada’s only university with a tricultural mandate, Laurentian offers an outstanding higher education and research experience in English and French, with a comprehensive approach to Indigenous education. Together with its federated partners, Laurentian prepares the next generation of leaders who bring innovative solutions to local and global issues. Students, faculty, and staff at Laurentian University are subject to the institutions’ COVID-19 Policy and Program, found at: https://laurentian.ca/COVID-19/vaccine . |
| To Apply | To apply, forward your application and cover letter to dtinkham@laurentian.ca , cc’ing merc@laurentian.ca and reference Job ID #2023-01. Your application should include a CV, academic transcripts, contact details and the names of three referees. Applications will be accepted until the position is filled. |

