

# CAREERS & RESEARCH

<b>Job Title:</b>	<b>MERC MSc Graduate Opportunity – Great Bear Resources</b>
<b>Job ID:</b>	<b>#2021-12</b>
<b>Project Description</b>	MERC, in partnership with Great Bear Resources., is seeking a MSc student to undertake a research project of the <b>P-T-t-fluid history of metamorphism across gold-bearing structures, Dixie property, Red Lake</b> . Amphibolite and greenschist facies metamorphic assemblages are developed in host rocks that contain shear zones and structures hosting Au mineralization at the Dixie Property, Red Lake, 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 and garnet geochronology). The project is funded through a partnership with Great Bear Resources Ltd and will be supervised by Drs. Doug Tinkham, Bruno Lafrance and Great Bear Resources' technical team.
<b>MERC</b>	The Mineral Exploration Research Centre (MERC), which is a semi-autonomous research center at Laurentian University and comprises an internationally-recognized group of researchers from Harquail School of Earth Sciences and partners within academia, industry and government. As a research center, MERC focuses on field- based collaborative research on Exploration and Precambrian Ore Systems. MERC is the lead organization on the Metal Earth project. <a href="https://merc.laurentian.ca">https://merc.laurentian.ca</a>
<b>Great Bear Resources</b>	Great Bear Resources is a successful gold exploration company focused in the prolific Red Lake District in Ontario. Their flagship Dixie Project covers a promising 18km gold target south of the main camp. <a href="https://greatbearresources.ca/">https://greatbearresources.ca/</a>
<b>Funding</b>	MERC MSc projects are fully funded for two years and includes complete field and analytical support.
<b>Laurentian University</b>	The University's Policy and Program on COVID-19 Vaccination is available <a href="#">here</a> . By submitting an application to Laurentian University you acknowledge that you have read the Policy and Program. Should you be successful in securing funding at MERC you are aware that this would be a precondition of your funding. The University will require that the successful candidate submit proof of full vaccination or receive an approved exemption as outlined in the Policy and Program. Failure to comply may result in a delay to the start of funding and/or the funding offer may be deemed void resulting in your funding ending without notice.
<b>To Apply</b>	To apply, please forward your application and cover letter to <a href="mailto:merc@laurentian.ca">merc@laurentian.ca</a> and reference the <b>Job Identification Number</b> . The application should include: a CV, academic transcripts, contact details and the names of three referees. Applications will be accepted until the position is filled.