



Mineral Exploration Research Centre
AT THE HARQUAIL SCHOOL OF EARTH SCIENCES

Mineral Exploration Research Centre (MERC), Harquail School of Earth Sciences, Laurentian University

Laurentian University is a recognized leader in mineral exploration research and is among the top Canadian universities in research funding for Economic Geology and in Applied Geophysics from the Natural Sciences and Engineering Research Council (NSERC).

With CAD \$104 million in funding provided by the Canada First Research Excellence Fund (CFREF) and through strategic partnerships with 5 Canadian universities, 6 government geological surveys and 3 international research centres, Laurentian University will conduct Metal Earth - the largest ever mineral exploration research project undertaken in Canada. Metal Earth seeks to identify and understand the processes responsible for Earth's differential metal endowment during the Precambrian. This research initiative aims to transform our understanding of Earth's early evolution and how we explore for metals.

Metal Earth will be led by the Mineral Exploration Research Centre (MERC), at the Harquail School of Earth Sciences (HSES), that is housed in the Willet Green Miller Centre at Sudbury. MERC is a semi-autonomous research centre at Laurentian established in 1997 and comprises an internationally-recognized group of researchers from HSES, academia, industry and government.

Master of Science (M.Sc.) student in seismic exploration

Metal Earth is seeking two M.Sc. students to participate in exploration seismic research and studies along several 2D seismic lines. Students will participate in processing, inversion, and interpretation of seismic data that are acquired as part of Metal Earth project. The seismic data were collected with long offsets and multiple spatial sampling scenarios with vibroseis and dynamite used as seismic sources. This unique seismic dataset will be used to image shallow and deep structures of Canadian Shield for mineral exploration purposes. Students will work on processing and interpretation of seismic data under the supervision of Dr. Mostafa Naghizadeh. Metal Earth is a multidisciplinary project and the seismic interpretation and inversion can draw on information from Magneto-Telluric (MT) data, geological mapping, gravity and magnetic studies, geochemical data etc. Candidates with experience or willingness to work in a large team are encouraged to apply. The research projects are fully funded for two years (\$30K/yr which includes a Laurentian Graduate Assistantship. Tuition and fees are deducted from this funding).

To apply, please forward your application and cover letter to Dr. Mostafa Naghizadeh (mnaghizadeh@laurentian.ca). The application should include: a CV, transcripts, contact details, and the names of three referees. Please state that you are applying for the SEISMIC M.Sc. position. The deadline for applications is December 31st 2017, but applications will be accepted until all positions have been filled.

For additional information regarding Laurentian University, MERC, and Metal Earth please visit merc.laurentian.ca/metalearth.

Laurentian University is a bilingual (French-English), tri-cultural institution, and an equal opportunity employer that is strongly committed to employment equity and diversity within its community. Laurentian University especially welcomes and encourages applications from members of visible minorities, women, Aboriginal persons, members of sexual minorities and persons with disabilities. Applicants may self-identify as a member of an employment equity group. All qualified candidates are encouraged to apply. However, Canadians and permanent residents will be considered first for these positions.