MERC

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.

MERC is seeking individuals with demonstrated excellence in research and is inviting applications for a Post Doctoral Fellowship/Research Associate beginning in Summer 2017; salary ranges is $65-$80k/yr plus benefits.

PDF/Research Associate in Magnetotelluric Methods.
We are seeking a geophysicist to undertake research on the large-scale variation in the physical properties of the Superior Craton. Initial duties and responsibilities will include: 1) assistance with purchasing and receipt of recently purchased field equipment; 2) planning of the magnetotelluric traverses (approx. 1000 km); 3) acquisition of the data; 4) processing of the data; 5) inversion of the data; 6) interpretation of the data to better understand the structure of the Craton at depth, taking into account geological constraints and geophysical (seismic, gravity, magnetic) constraints. The successful candidate will co-supervise a PhD student working on the project and interact with other geophysicists and geologists working on the project. It is expected that the candidate will publishing the results as Metal Earth/geological survey open files and reports, and in peer-reviewed international journals.

This position will be for three years.

Qualifications desired are:

- Knowledge and experience in acquiring and processing magnetotelluric data.
- Knowledge and experience inverting MT data.
- Experience interpreting MT data subject to geological and geophysical constraints.

Non-essential but useful qualifications include;

- Some knowledge of Archean tectonics, and metallogeny,
- Some knowledge of French.

For additional information regarding Laurentian University, MERC, and Metal Earth please visit merc.laurentian.ca/metalearth. To apply, please forward your resume and cover letter to Chantal Duval at cduval@laurentian.ca. The application should include: a CV including a list of publications, contact details and the names of three referees. Please state that you are applying for the MT PDF position. The deadline for applications is March 31st 2017, but applications will be accepted until the position has been filled.

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.