



## GIS DATA VISUALIZATION SPECIALIST

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

The Mineral Exploration Research Centre, at the Harquail School of Earth Sciences at Laurentian University, seeks applicants for the position of GIS Data Visualization Specialist to support research conducted under Metal Earth. The appointment is for 7 years, and is contingent upon funding.

Group: Grant Funded Appointment

Required: GIS Data Visualization Specialist  
Metal Earth

- Responsibilities:
1. Create self-consistent 2D maps and 3D "Common Earth" models
  2. Meet with users to define data needs, project requirements, required outputs, and develop applications
  3. Work closely with the Database Manager to design and update database, applying additional knowledge of spatial feature representations
  4. Gather, analyze, and integrate data from staff and determine how best the information can be displayed using GIS/CAD
  5. Work with Database Manager to incorporate 2D and 3D geological, tectonic, structural, geophysical, petrophysical, mineralogical, geochemical, and isotopic data from a variety of sources including researcher-provided data, satellite imagery, aerial photographs, and existing databases
  6. Enter new map data through user of a digitizer or by direct input of coordinate information (coordinate systems, longitude, latitude, elevation, topography, and map scales)
  7. Analyze geographic relationships among varying types of data
  8. Prepare metadata and other documentation
  9. Operate and maintain GIS system hardware, software, plotter, digitizer, color printer, and video camera
  10. Move, copy, delete, and add files, drawings, and maps to output reports in hard copy or electronic transfer
  11. Present information to users and answer questions
  12. Retrieve stored maps



- Skills, knowledge and abilities:
- Minimum BSc in Geology; MSc in some area of Precambrian Geology will be an asset
  - High level of proficiency in ArcGIS and GOCAD Experience with Geoscience Integrator® and Geoscience Analyst ® will be an asset
  - Excellent computer cartographic skills.
  - Superior analytical skills and the ability to solve problems using GIS tools
  - Strong mathematical skills to solve GIS problems
  - Knowing of where to find information, identify essential information, and validate information
  - Ability to evaluate system performance and accuracy
  - Ability to use and develop computer programs to solve GIS problems will be an asset
  - Ability to work as part of a multidisciplinary team
  - Excellent oral and written communication skills

Salary: \$50,000 - \$60,000

Competition closes: February 23, 2018 at 4:30pm

Contact information: Laurentian University  
Metal Earth  
935 Ramsey Lake Rd, WGMC-8<sup>th</sup> Floor  
Sudbury, ON P3E 2C6

To apply, please forward your cover letter, CV with contact details and the names of three references to Christine Rodrigue at [crodrigue1@laurentian.ca](mailto:crodrigue1@laurentian.ca)

For additional information regarding Laurentian University, MERC and Metal Earth please visit [merc.laurentian.ca/metalearth](http://merc.laurentian.ca/metalearth).

Laurentian University is a bilingual (French-English), and tri-cultural institution. 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, Canadian and permanent resident will be considered first for the position.