

PhD and MSc projects opportunities

The Metal Earth project, and in particular the Chibougamau Transect team located at the UQAC University (Québec), is looking for two students having an interest for igneous petrology and economic geology. Both the PhD and MSc projects are fully funded and will start in spring 2019 or September 2019.

The UQAC research team, under the leadership of Lucie Mathieu and in collaboration with several professors of the UQAC and Laurentian universities, aims at unraveling the relationships between magmatic and mineralizing processes.

The team is currently looking for candidates for the following projects:

1. **PhD project on syntectonic magmatism in the Abitibi and Wabigoon subprovinces:** this Metal Earth project focuses on intrusion-related gold deposits; a mineralizing style that remains poorly documented in the Neoproterozoic period. The project aims at comparing the petrogenetic evolution and sources of granodiorite and syenite intrusions from greenstone belts currently investigated as part of the Metal Earth project. Special attention will be paid at the fluid and metal contents of the magmas, and at their relationships with known gold deposits.
2. **MSc project on the vanadium deposits of the Lac Doré Complex, Chibougamau area, Abitibi subprovince:** this FRQNT-funded project focuses on a large layered intrusion of the Chibougamau area, which contains a magnetite-enriched unit (called the Layered Zone) currently explored for vanadium. The aim of this project is to unravel the magmatic evolution of the Layered Zone using magnetite chemistry and to provide a scientific foundation for exploration models.

If you are interested, please send your CV, a copy of your marks, the name and contact information of one to two referees (i.e. your BSc and/or MSc supervisors), and a motivation letter before the **30th of March 2019** to:

Professor Lucie Mathieu
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UQAC institutional chair on Archean metallogenic processes

This chair is held by L. Mathieu at the University of Québec in Chicoutimi (UQAC), and is part of the Metal Earth project, which is led by the Mineral Exploration Research Center (MERC), Harquail school of Earth Sciences, Laurentian University, ON. Metal Earth is currently the most ambitious project on gold and base metals of northern America. The UQAC institutional chair on Archean metallogenic processes aims at unraveling the importance of magmatic processes in the concentration of precious and base metals. It has a special interest for the Abitibi Subprovince; i.e. Chibougamau and other areas.