



McGill

Earth & Planetary Sciences

McGill University

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CANADA

Research Associate in Hydrothermal Geochemistry

The Hydrothermal Geochemistry Laboratory in the Department of Earth and Planetary Sciences at McGill University has an opening for a Research Associate. The laboratory is an integral part of an ore deposits research group and is dedicated to understanding the concentration of metals by magmas and hydrothermal fluids. To this end, experiments are conducted on melt and fluid inclusions, which are designed to evaluate metal partitioning, melt/fluid behaviour and physicochemical conditions. Experiments are also performed to determine the speciation of metals in aqueous fluids containing ligands known to be important in nature. A particular interest is the behaviour of high field strength elements (HFSE) including rare earth elements (REE) in magmas and related hydrothermal fluids.

Applicants should hold a Ph.D in geochemistry, have had post-doctoral experience in hydrothermal ore geochemistry and related igneous petrology, have a proven record of research and publication and a good grasp of spoken and written English. They should be familiar with fluid and melt inclusion techniques, both analytical and experimental (in particular, experience with FTIR, Raman spectroscopy, cathodoluminescence and microthermometry), have a knowledge of metal speciation in aqueous fluids at elevated temperature, and experience with thermodynamic modeling. The successful candidate will be a member of a multidisciplinary ore deposits research group and will be expected to help in the training and supervision of students in experimental geochemistry. He/she will work with limited supervision, make presentations at international conferences and publish papers regularly in international refereed journals.

The initial appointment is for a period of one year with an option of renewal subject to a positive evaluation of accomplishments in the position. The salary will be \$24.19/hr based on a 40 hour week, plus benefits outlined in the Association of McGill University Research Employees (AMURE) Collective Agreement.

Applications should include a cover letter, curriculum vitae, copies of three relevant publications, a statement of research interests and the names and addresses of three referees. They should be sent electronically to A.E. (Willy) Williams-Jones (anthony.williams-jones@mcgill.ca) with copies to J.R. Clark (james.r.clark@mcgill.ca).

Review of applications will begin on **October 1st, 2016** and continue until the position is filled.

All qualified applicants are encouraged to apply; however, in accordance with Canadian immigration requirements, Canadians and permanent residents will be given priority. McGill University is committed to diversity and equity in employment. It welcomes applications from: women, Aboriginal persons, persons with disabilities, ethnic minorities, persons of minority sexual orientation or gender identity, visible minorities, and others who may contribute to diversification.