



Laurentian University
Université Laurentienne

HARQUAIL SCHOOL OF EARTH SCIENCES
ÉCOLE DES SCIENCES DE LA TERRE

PhD Projects on Cr and Ni-Cu-PGE Deposits

Start Date: May or Sept 2019

Applications are invited for two PhD projects: 1) one on the genesis and localization of mineralization in the Sudbury Structure, one of the world's largest and richest Ni-Cu-PGE deposits, and 2) one in the McFaulds Lake ("Ring of Fire") area of northern Ontario, one of the world's largest unmined chromite and Ni-Cu-(PGE) resources. Both projects are fully-funded (including a graduate research assistantship, tuition, living stipend, and field/analytical/travel expenses) for 4 years and will involve a combination of field mapping and/or core logging, petrography, mineral analysis, whole-rock geochemical and isotopic analysis and modelling, and 3D GOCAD® modelling. The projects will begin in May 2019. Both will involve close collaborations with sponsoring mining companies.

Applicants must have >75% (B+ or equivalent as determined by WES) overall grade-point averages with very strong backgrounds and demonstrated experience in igneous geochemistry, igneous petrology, and magmatic Ni-Cu-PGE and Cr deposits. Experience in geochemical, petrological, fluid dynamic, and/or GOCAD® modelling will be an asset. A MSc degree is required at the time of arrival, although exceptional BSc Honours graduates may be admitted as MSc students and convert to a PhD. To apply send cover letter, CV, academic transcripts, and e-mail addresses of 3 academic references – to Professor Michael Lesher <mlesher@laurentian.ca>.