



## **Department of Geology – Saint Mary's University, Halifax, Nova Scotia MSc Project Available**

The Department of Geology at Saint Mary's University invites applications for a fully, funded (minimum \$30,000/year) two-year MSc position to start in September 2023, with ~1-2 weeks fieldwork at the end of August-early September, 2023.

This research will determine the petrography, geochemistry and geochronology of granitic intrusives below the Athabasca Basin, northern Saskatchewan, which hosts world-class unconformity-type uranium deposits. The results will be used to evaluate i) the petrogenesis of these rocks, and ii) their potential as radiogenic heat sources for hydrothermal systems responsible for uranium mineralization. This project is funded by, and in collaboration with, the Targeted Geoscience Initiative 6 program of the Geological Survey of Canada (GSC). It will be supervised by Dr. E. Adlakha, Associate Professor at Saint Mary's University, and co-supervised by Drs. V. Tschirhart and J. Powell of the GSC.

The ideal candidate has BSc honour's level research experience in the topics of igneous petrology and/or geochronology, and will be comfortable conducting field-work in northern (isolated) exploration and/or mining camps. Experience using in-situ analytical techniques such as scanning electron microscopy is considered an asset. Potential candidates should email [erin.adlakha@smu](mailto:erin.adlakha@smu) with their CV/resume, unofficial transcript, and details of their experience and interest in the project.

The Department of Geology hosts faculty members with a broad range of expertise as well as state-of-the-art analytical facilities for research in mineralogy, geochemistry, and ore deposits. In-house analytical instruments include a field emission scanning electron microscope, bench-top micro-X-Ray Fluorescence spectrometer, a state-of-the-art fluid inclusion microthermometry lab, a gas chromatograph and confocal laser Raman spectrometer.

Saint Mary's University is located in the historic port city of Halifax, Nova Scotia, a vibrant, urban community of over 350,000 people. Halifax is a major educational centre for Atlantic Canada and is home to five universities. It is conveniently located close to recreational areas and to other major urban centres in Canada and the northeastern United States. Our campus is based in Mi'kma'ki, the ancestral and unceded territory of the Mi'kmaq, and is global in reach and influence

Saint Mary's University hires based on merit and is committed to the principles of employment equity. Saint Mary's University encourages applications from qualified women, visible minorities, LGBTQ2+, Indigenous people, and people with disabilities. Preference will be given to Canadian citizens and permanent residents of Canada.

**World without limits.**