

In partnership with Northisle Copper and Gold Inc. and Evolution Mining Ltd. the Geology Department at Lakehead University is looking to recruit three MSc students to investigate the alteration footprint of orogenic gold and porphyry deposits through the application of mineral chemistry, particularly pyrite. Studies will take place in Red Lake, Northern Ontario and Vancouver Island, British Columbia. The first project will characterize the alteration footprint of the Northwest Expo porphyry system on northern Vancouver Island, whereas Projects 2 and 3 will investigate the alteration footprint of the McFinley gold deposit and compare this to alteration footprints of other mineralised systems within the Red Lake belt.

The successful candidates will use core logging, petrology, whole rock and mineral chemistry, stable isotopes and geochronology to investigate the alteration footprints of the distinct styles of mineralization as part of the larger AMIRA P1249 project undertaken in collaboration with CODES at the University of Tasmania. The student will be expected to work closely with the industry partners at both study sites. Potential candidates will have a strong background in economic geology and should have completed an Honours degree in Geology. The successful candidates will receive a stipend of up to CAN\$25,000 per year for two years as well as a Graduate Assistantship valued at approximately \$12,000 per year. Candidates may also be eligible to apply for other competitive grants and scholarships. The projects will start in the summer of 2023.

The research team is led by Dr. Pete Hollings, in collaboration with industry geologists and Drs. David Cooke and Lejun Zhang from the University of Tasmania. We are looking for enthusiastic, passionate and talented researchers to join our team.

Interested candidates should contact Dr. Peter Hollings at peter.hollings@lakeheadu.ca

The Geology Department at Lakehead is a small but dynamic department with six faculty and a strong focus on hard rock geology. The Department offers Undergraduate and Masters degrees in geology and environmental science. Courses offered by the department place a strong emphasis on 'hands-on' geology reflecting our location within the Canadian Shield.

Lakehead is a comprehensive university with a reputation for innovative programs and cutting-edge research. With campuses located in Thunder Bay and Orillia, Lakehead has approximately 10,000 students and 2,160 faculty and staff. With an emphasis on collaborative learning and independent critical thinking and a multidisciplinary teaching approach, Lakehead offers a variety of degree and diploma programs at the undergraduate, graduate, and doctoral levels through its ten faculties, including Business Administration, Education, Engineering, Health and Behavioural Sciences, Natural Resources Management, Science and Environmental Studies, Social Sciences and Humanities, Graduate Studies, the Northern Ontario School of Medicine (West Campus) and the Bora Laskin Faculty of Law. For further information, please visit: www.lakeheadu.ca.

Lakehead University is committed to creating a diverse and inclusive environment and welcomes applications from all qualified individuals including women, racialized persons, Indigenous people, persons with disabilities and other equity-seeking groups.

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