I am seeking an enthusiastic and driven student for an industry-supported PhD project that will conduct research on a newly discovered gold deposit (Dixie Project) in the Red Lake area of Ontario, Canada. The Dixie property shows different styles of gold mineralization within metamorphosed and deformed lithologies. The objective of the project is to characterize the different gold mineralization styles, investigate the role of metamorphic remobilization, constrain the genesis of different gold mineralization styles, and provide geochemical vectors for future gold exploration. This project will utilise existing geochemical data and involve conducting detailed field work (core logging and limited field mapping), geochemical analysis, petrographic analysis of ore mineralogy, and various micro- and nano-analytical studies of ore chemistry and microstructure.

The results will impact our understanding of gold mineralization in one of Canada’s prime gold districts and the role of metamorphism and deformation on gold mineralization. The project is in cooperation with Great Bear Resources and part of a research initiative between Department of Earth Sciences, University of Manitoba and MERC, Laurentian University.

The Department of Earth Sciences is recognized as one of Canada's leading geoscience units. We are a dynamic and diverse group interested in a broad range of research in the geological sciences. The Department houses research laboratories with state-of-the-art equipment in excess of $11 million.

The successful applicant must have a MSc or similar degree in geology or related disciplines. The anticipated start date of the project is May 2022.

To apply, please forward your application with a cover letter to Stefanie Brueckner at stefanie.brueckner@umanitoba.ca. The application should include: a CV, academic transcript, recent TOEFL or IELTS score for non-native (English) speaking applicants, and contact details of three referees. Review of applications will begin immediately and continue until the position is filled.