



**Job Title: Geomechanics Lab and Field
Technician Intern**

MIRARCO Mining Innovation is looking for a Geomechanics Lab and Field Technician Intern.

Background

MIRARCO was established in 1998 as a not-for-profit mining and environmental research corporation, affiliated with Laurentian University. MIRARCO is governed by an independent Board of Directors, representing a number of mineral resource services and supply companies. Industry research contracts and government grants provide the operational funding.

The company has evolved over the years through the establishment of niche research centres in response to industry demand, serving clients over a variety of different areas. MIRARCO is currently active in five research areas:

1. Geomechanics
2. Biotechnology
3. Software
4. Safety
5. Energy

Our Mission

We are the innovative research partner of choice for mining and related industries.

Our Vision

A research organization that develops innovative technologies and applied solutions, and trains highly qualified individuals in support of a safe, productive, and sustainable global mining industry.

Our Values

Innovation, collaboration, knowledge transfer, responsiveness, and social responsibility.

Job Description

This is a one-year, full-time contract position. This opportunity is proudly supported by Northern Ontario Heritage Fund Corporation and is funded through the Workforce Development Program. Eligibility requirements of the program can be found here: <https://nohfc.ca/en/pages/programs/people-talent-program/workforce-development-stream>. In short, to be eligible the candidate has to:

- Be a new entrant into the work force, transitioning to a new career, or

- unemployed or underemployed who are entering a new field;
- Not previously participated in a NOHFC-funded internship;
- Be at least 18 years of age; and
- Reside, and be legally entitled to work, in Canada.

The candidate will be responsible for supporting research efforts in geomechanics, mining, and civil projects related to:

- Fracture mechanisms, specifically found in mining;
- Natural stress measurement via field testing;
- Borehole surveying using acoustic and optical televiwers;
- Rockmass characterization via lab testing such as compressive, tensile, and shear strengths;
- Numerical models to solve excavation stability problems to predict underground excavation convergence.

The candidate is also required to:

- Execute all lab and field work abiding by any and all Health and Safety regulations and standards;
- Be available to provide support in off-site projects as required;
- Prepare reports (and journal articles if possible);
- Liaise with a variety of stakeholders such as industry partners and team members.

Due to the nature of the work, a strong foundation in Material Sciences, or more specifically Geomechanics, is desirable.

Reports to: Lab and Field Manager.

Working Conditions:

Field campaigns may on occasion require to travel to project sites for extended periods of time. The candidate is required to hold at least a G2 license.

Application details:

If you are qualified and are interested in this role, please send your CV and a cover letter to info@mirarco.org.

The deadline for applications is August 30, 2024.

