



## Job Description: Director, Geomechanics Research Centre

### **Job Title:**

Mirarco Mining Innovation is looking for a Director to lead our Geomechanics Research Centre (GRC).

### **Background**

MIRARCO was established in 1998 as a not-for-profit mining and environmental research corporation, owned by 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 four research areas:

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

### **Vision**

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

### **Mission**

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

### **Values**

*Innovation, Collaboration, Responsiveness, Social Responsibility.*

## **Main Focus Areas of the GRC:**

The Geomechanics Research Centre conducts work in four major areas.

1. Providing laboratory and field monitoring services to mining and civil industries. Laboratory services include rock property testing and field services include in-situ stress measurement, hydro-fracturing for ground conditioning, and rock mass characterization.
2. Conducting research and development to address challenges of deep underground mining.
3. Training of HQP and knowledge transfer through short courses, workshops and publications.
4. Supporting other research centres by providing geomechanics expertise.

Key past successes – reknown for providing in-situ stress measurement for mine design, reknown for research and development in dynamic testing of rock support, development and deployment of hydraulic pre-conditioning, development of the Superbolt and BurstSupport tools as well as Rockburst Support Reference Book.

## **Reports to:**

The Director of GRC reports to the President/CEO of MIRARCO.

## **Duties and Responsibilities:**

- Leading, mentoring and sustaining an effective team of subordinates to ensure on-time and on-budget delivery of project objectives and commitments.
- Delivery of laboratory and field monitoring services that meet the needs of the mining industry.
- Contribute to the development of MIRARCO as a multi-disciplinary R&D corporation.
- Strategic development for the Geomechanics Research Centre – think big and bold to support clients as mines go deeper underground!
- Business development for the Geomechanics Research Centre – prepare and submit proposals that bring on new clients and projects that meet the business objectives.
- Securing industry and government funding to support projects.
- Commercialization of geomechanics solutions.
- Management and reporting of the Geomechanics Research Centre budget.

## **Qualifications and Experience.**

The Director of GRC should have a background in geomechanics or a closely aligned field and possess a post-secondary degree in mining or civil engineering, with a minimum of 15 years of industry and/or academic experience. An advanced degree

(Masters or PhD) and Professional Engineering (P.Eng.) designation are preferred. It would be an asset to have experience with the following:

- Working in an academic setting
- Success in applying for grant funding
- Managing a team
- Strategic development
- Project management
- Numerical Modelling
- Laboratory testing

**Working Conditions:**

No special working conditions apply to this role but travel (local and international) and field work will be required.

**Application details:**

If you are qualified and are interested in this role please send your CV and a cover letter to [jabols@mirarco.org](mailto:jabols@mirarco.org).

The deadline for applications is December 23<sup>rd</sup>.