
Senior Geomechanics Engineer

Expertise Geomechanics, Microseismics, Numerical Modeling, Underground Mining

Education B.Eng. (Mining), 2018
Laurentian University, Sudbury, Ontario, Canada

Registration Registered Professional Engineer in the province of Ontario, Canada

Professional Experience

2025 – Present	ITASCA Canada Senior Geomechanics Engineer
2021 – 2025	ITASCA Canada Geomechanics Engineer
2020 – 2021	ITASCA Canada Rock Mechanics - EIT
2019 – 2020	Alamos Gold Inc., Island Gold Mine, Dubreuilville, Ontario, Canada Ground Control – EIT
2018 – 2019	KGHM Morrison Deposit, Levack, Sudbury, Ontario, Canada Ground Control Coordinator
2017 – 2018	Kirkland Lake Gold Macassa, Kirkland Lake, Ontario, Canada Technical Clerk

Project Experience

Mining:

Itasca Consulting Canada Inc.

Geomechanical Modeling & Site Support

- Performed geotechnical assessments at different stages of Pre-Feasibility and Feasibility Studies.
- Assess numerical model output to provide geotechnical recommendations on production sequence, infrastructure placement, seismic risk, subsidence limits, and overall stability of the mine design.
- Conducted statistical analysis of geotechnical core logs and strength testing data for QA/QC and numerical modeling input.
- Utilized Rhino 7 and Griddle 2.0 to clean and generate mine geometries for advanced modeling.
- Built and calibrated FLAC3D (v7.0 and v9.0) numerical models for both mine-wide and infrastructure-specific applications using field data, seismicity, and site observations.
- Performed slope stability analyses and developed geomechanical recommendations for sequencing, slope sizing, and hazard mitigation.
- Provided ground control training, conducted underground tours, and supported site operations with hands-on geomechanical expertise.
- Created software tutorials and technical content to support user training for Itasca software.

Alamos Gold Inc. – Island Gold Mine

Ground Control & Microseismic Monitoring

- Updated and authored ground control procedures and contributed to the Ground Control Management Program.
- Performed daily ground control inspections, backfill evaluations, and cable bolt support design.
- Managed the Ground Control Logbook and coordinated monthly QA/QC testing.
- Oversaw the daily operation and expansion of the site's microseismic system to monitor ground behavior.
- Collaborated with operations teams on geotechnical investigations and site-based planning.

KGHM – Morrison Deposit

Underground QA/QC & Support Inspection

- Conducted underground inspections and issued rehab prints based on observed ground conditions.
- Performed pull tests on ground support elements and maintained backfill testing records.
- Assisted in managing and maintaining the underground microseismic system for ground movement tracking.

Kirkland Lake Gold – Macassa Mine

Resource Model Refinement

- Worked with geology and engineering teams using Deswik to repair block model solids.
- Supported the transition of geological resources to mineable reserves through data cleanup and model refinement.