

**Geomechanics Engineer**

**Expertise** Rock Mechanics, Advanced Numerical Modelling, Instrumentation, Mining Engineering

**Education** M.A.Sc. (Mineral Resource Engineering), 2005  
B.Eng. (Mining Engineering), 1998  
Laurentian University

**Registration** Registered Professional Engineer in the province of Ontario, Canada

**Professional Experience**

*Dec 2019 – present* Itasca Consulting Canada Inc., Sudbury, Ontario, Canada  
*General Manager and Principal Geomechanics Engineer*

*Jan 2016 – Nov 2019* Glencore – Sudbury Integrated Nickel Operations, Sudbury, Ontario, Canada  
*Senior Ground Control Engineer, Nickel Rim South Mine*  
*April 2018 – Nov 2019* Certified Joint Health and Safety Committee Staff Representative, Mines-Mill Business Unit

*Feb 2015 – Jan 2016* SRK Consulting, Sudbury, Ontario, Canada  
*Principal Geomechanics Engineer*

*Jan 2002 – Jan 2014* Itasca Consulting Canada Inc., Sudbury, Ontario, Canada, *Principal Geomechanics Engineer*

**Project Experience**

*Mining Engineering:* Geomechanics support to mining industry clients including incident investigations and quarterly operational reviews. Consulting on mining strategies and sequencing in deep operations to minimize rock mechanics issues such as pillar sizing and advancement configuration. Rock mechanics support for open pit operations. Cave propagation and subsidence estimation.

*Numerical Modelling:* Numerical modelling of mine design, backfill design and the behavior of different systems support systems. Numerical modelling of artificially frozen ground at depth. Modelling of pillar dimensions, crown pillar stability, sill pillar behaviour to determine critical dimensions. Modelling of an underhand drift and fill operation at depth. Developed a set of numerical routines to simulate the effect of block or panel caving operations on surface subsidence profiles. Advanced research into jointed rock mass strength estimation under confinement.