

Senior Geotechnical Engineer

Expertise	Rock Mechanics, Numerical Modeling
Education	M.Sc. Civil Engineering, 2011 Pontificia Universidad Católica de Chile, Chile B.A.Sc. Geotechnical Engineer, 2011 Pontificia Universidad Católica de Chile, Chile.
Professional Experience	
2020 – Present	<i>Itasca SpA, Chile</i> <i>Senior Geotechnical Engineer</i>
2017 – 2020	<i>SRK Consulting Chile, Chile</i> <i>Consulting Engineer</i>
2015 – 2017	<i>MVA Geoconsulta, Chile</i> <i>Geotechnical Engineer</i>
2013 – 2014	<i>IM2, Codelco</i> <i>Researcher</i>
2011 – 2014	<i>Pontificia Universidad Católica de Chile</i> <i>Researcher</i>
2010 – 2011	<i>Arcadis Chile</i> <i>Project Engineer</i>

Project Experience

Numerical modeling applied to open pit mining: Design and stability analysis of slopes for projects in Chile, Peru, Russia and Kyrgyzstan, including creep analysis, DFN, and hydro-mechanical coupling models. Additionally, quantitative geotechnical risk assessment and uncertainty analysis.

Numerical modeling applied to underground mining: Stability analysis, uncertainty analysis and quantitative risk assessment, in-situ and primary fragmentation estimation for projects in Chile, USA and Russia. Research of technologies of rock mass pre-conditioning by hydraulic fracturing, including hydraulic fracture propagation modeling.