



Engineer, Mine (Geotechnical) (41469)

Location: McArthur River, SK

About Us

McArthur River, located in northern Saskatchewan, is the world's largest high-grade uranium mine. The uranium produced at McArthur River is used for nuclear fuel products, which utilities around the world rely on to generate safe, reliable, emissions-free nuclear power. Cameco is one of the largest global providers of the uranium fuel needed to power a secure energy future.

The Role

Join the McArthur River team as a Senior Geotechnical Engineer. In this site-based role you will bring strong experience in geotechnical engineering design and analysis and apply geotechnical principles to support underground mine designs and contribute to the full scope of geotechnical work, from early concept development through detailed design and construction. The position involves close collaboration with other technical disciplines and mine operations and plays an essential part in ensuring safe and effective engineering outcomes.

In this role, you will:

- Provide geotechnical leadership and mentoring to junior members of the mine engineering team.
- Assist the Chief Mine Engineer with geotechnical reviews and risk assessments of the mine plans to ensure that mine layouts and mining sequence are optimized to reduce the risk to safety and production.
- Oversee ground support and backfill designs/standards, and quality control programs.
- Oversee design of underground drifts, chambers and stopes using analytical and numerical tools for stability analysis.
- Lead geotechnical inspections of underground work areas, including geotechnical data collection (MPBX readings, closure stations) and testing (pull tests).
- Be responsible for geotechnical applications, ranging from field mapping, geotechnical core logging, and rock mass characterization to rock stability assessment and ground support design.
- Prepare geotechnical reports and coordinate third-party audits and develop action plans to address recommendations.
- Network with geotechnical staff from other Cameco operations and Corporate.

Required:

- Bachelor's degree in geological, geotechnical or mine engineering
- Four to eight years of underground mining experience, with a focus on ground support engineering and design
- Strong knowledge of rock mechanics and geotechnical fieldwork, including logging, mapping, and rock mass characterization

- Eligible for registration with the Association of Professional Engineers and Geoscientists of Saskatchewan (APEGS)
- Proficiency in ground support design and 2D/3D geotechnical modelling
- Experience with 3D mine design software (Deswik)
- Excellent communication, technical writing and presentation skills
- Strong organizational and time management abilities
- Ability to work independently and collaboratively in a team environment
- Work a rotational schedule and commute to site by aircraft

Recommended:

- Experience in hydrogeology and backfill systems
- Familiarity with geotechnical design and analysis software
- Proficient in Microsoft Excel and PowerPoint
- Project management experience, including planning and coordination
- Knowledge of development and ground support strategies for weak rock conditions and tunnelling environments

Conditions of Employment:

- Substance test

Cameco is proud to offer a competitive total reward package which includes:

- Competitive compensation program with base and variable pay
- Flexible health, drug, dental, and vision plan with a health spending and personal spending account
- Fixed benefits including employee and dependant life, AD&D, disability benefits and paid vacation leave
- Employee & Family Assistance Programs
- RRSP and RPP matching program
- Career development opportunities
- Relocation costs

Cameco is an employment equity employer and aims to achieve gender parity, and as such, preference will be given to qualified members of equity groups. We are strengthened by the diverse backgrounds of experiences and encourage applicants with various levels of expertise to apply, as equivalent combination of education and work experience are considered.

This position is eligible for the employee referral bonus.

Req ID #: 41469

Posted: October 2, 2025

Posting end date: October 23, 2025

Salary Range: \$120,080 - \$150,100

To explore this career opportunity, please visit

<https://career17.sapsf.com/sfcareer/jobreqcareer?jobId=41469&company=Cameco>