



Sr. Engineer, Structural Integrity (42070)

Location: Saskatoon, SK

About Us

Cameco is one of the largest global providers of the uranium fuel needed to energize a clean-air world. Utilities around the world rely on our nuclear fuel products to generate safe, reliable, emissions-free nuclear power. Cameco's corporate office is based in Saskatoon. We have mining operations and projects in northern Saskatchewan, Kazakhstan, the United States and Australia. We are also a leading supplier of uranium refining, conversion, and fuel manufacturing services from our operations in Ontario.

The Role

Reporting to the manager, reliability engineering, you will act as the technical authority for Cameco's structural integrity program, with accountability for program governance. The program aims to ensure that structural assets within the program are properly, consistently, and regularly inspected over their life cycle post commissioning, including assurance of inspection effectiveness, periodic reviews of inspection strategies, and continuous improvement based on asset risk. Structural assets within scope may include buildings, headframes, shafts, surface and underground structures, foundations, structural components of storage tanks and vessels, piping supports, material handling structures, and other civil/structural infrastructure that supports safe and reliable operations.

In this role, you will:

- Develop and maintain Cameco's structural integrity program, including governance, standards, inspection strategies, and performance metrics.
- Develop inspection and condition monitoring plans for structural assets, including integration of mechanical components where applicable.
- Execute structural integrity inspections and facilitate third party inspections of structures at Cameco's operations.
- Provide engineering assessments of inspection and monitoring results, including working with Cameco's Technical Services group to develop recommendations for repairs, remediation, load restrictions, or re-evaluation of inspection plans.

- Coordinate long-term inspection plans and integrity activities across Cameco's operations.
- Support risk-based integrity prioritization and input into asset investment and lifecycle planning.
- Provide technical guidance and subject-matter expertise to site engineering, maintenance, and operations teams related to structural integrity risks and mitigation measures.

Required:

- bachelor's degree in structural or civil engineering (mechanical considered with significant structural integrity experience);
- professional engineer designation (P. Eng);
- minimum of eight years of progressive experience in structural integrity, reliability engineering, or asset integrity management within operating industrial, mining, or heavy infrastructure environments;
- knowledge of structural design and assessment standards (e.g., ASCE 11, CSA S850, ACI assessment standards, CSA S16, CSA A23.3, CSA S6_or equivalent);
- experience applying risk-based inspection or risk-based asset integrity methodologies;
- eligible for registration with the Association of Professional Engineers and Geoscientists of Saskatchewan (APEGS); and
- ability to travel to northern Saskatchewan or Ontario operations approximately once per month.

Recommended:

- knowledge of SAP-PM;
- experience with inspection and assessment of steel, concrete, timber, and composite structures in industrial environments;
- familiarity with load rating, structural health monitoring, corrosion assessment, fatigue, and remaining life evaluation techniques;
- working knowledge of applicable building codes, occupational health and safety regulations, and jurisdictional requirements (Saskatchewan, Ontario, Federal COHSR, where applicable);
- knowledge of related standards and guidance from CSA, ASTM, ISO, AISC, ACI, API (as related to structural components of equipment and tanks);
- experience with non-destructive testing (NDT) methods applicable to structural systems;
- CGSB Level I or II, PCN, or ASNT Level II certification (or demonstrated experience managing NDT programs); and
- strong communication, collaboration, coaching/mentoring, and interpersonal skills, with the ability to influence decisions across disciplines and sites.

Conditions of Employment:

- pre-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 and Family Assistance Programs;
- RRSP and RPP matching program;
- career development opportunities; and
- 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.

You will have the opportunity to work remote in this position. However, there may be the need for intermittent meetings in the Saskatoon office/travel to site. The details of this flex work arrangement will be discussed with you in the recruitment process.

This position is eligible for the employee referral bonus. You could earn \$5,000 (less deductions) by referring the successful candidate.

Applicants with lesser qualifications may be considered at an appropriate level, if fully qualified applicants do not apply.

Req ID #: 42070

Posted: April 16, 2026

Posting end date: May 7, 2026

Salary Range: \$148,000 – \$185,000