

STRUCTURAL RESTORATION ENGINEER (INTERMEDIATE/SENIOR)

Crosier Kilgour is seeking a highly skilled **Structural Restoration Engineer** to join our growing team. You will play a key role in the assessment, design, and rehabilitation of existing buildings and infrastructure. The ideal candidate combines strong technical expertise with curiosity, creativity, and a passion for solving complex structural challenges. This position involves field investigation, structural analysis, preparation of restoration designs, and close collaboration with clients, contractors and multidisciplinary teams.

Job Responsibilities

Structural Assessment & Field Investigation

- Conduct on-site structural inspections of buildings, parking structures, foundations, balconies, façades, and other existing building infrastructure.
- Diagnose structural performance issues such as cracking, corrosion, movement, water infiltration, distress, or material deterioration.
- Perform destructive and non-destructive testing, coordinate with materials testing specialists, and interpret investigation results.
- Identify root causes of distress including corrosion, cracking, movement, and water infiltration.
- Document findings through clear notes, photographs, sketches, and test data.

Engineering Analysis & Design

- Develop practical, constructible repair and strengthening solutions tailored to the needs of each structure.
- Prepare detailed engineering calculations, structural analyses, and repair drawings/specifications.
- Recommend remediation approaches considering durability, constructability, and cost efficiency.
- Evaluate multiple rehabilitation strategies with consideration for durability, life-cycle cost, and project constraints.
- Apply relevant codes, standards, and industry best practices for the assessment and restoration of existing buildings.

Project Management & Coordination

- Prepare technical reports summarizing findings, recommendations, and engineering rationale.
- Work collaboratively with architects, contractors, and other consultants throughout the investigation, design, and construction phases.
- Conduct site reviews during construction to confirm conformance with design intent and adapt solutions as required.
- Support project planning activities including scope development, cost estimating, and scheduling.

Candidate Requirements

As a member of our team, we expect you to have the following qualifications, with additional depth and breadth expected for more experienced applicants.

Education & Registration

- Bachelor's degree in Civil/Structural Engineering (Master's degree an asset) or Diploma in Civil Engineering Technology.
- Professional Engineer (P.Eng.) or Certified Engineering Technologist designation, or eligibility for EGM/CTTAM membership.
- 2–10+ years of relevant experience in structural restoration, rehabilitation, forensic engineering, or structural design.

Skills & Attributes

- Experience with concrete repair, masonry restoration, post-tensioned systems, corrosion mitigation, waterproofing, or façade assessment is considered an asset.
- Strong understanding of structural materials and deterioration mechanisms.
- Excellent problem-solving skills and attention to detail.
- Excellent written and verbal communication skills, including the ability to clearly present technical information.
- Proficiency with structural analysis and design software (e.g., ETABS, SAP2000, ADAPT, SAFE, RISA, or equivalent).
- Strong knowledge of building codes and standards relating to existing buildings (NBCC, CSA standards, ACI, ICRI, etc.).
- Detail-oriented, organized, and able to manage competing priorities across multiple projects.
- Ability to manage multiple projects and work both independently and collaboratively.
- Proficiency in Microsoft Office applications.
- Physically able to conduct field work and site inspections under varied conditions.
- Eligible to work in Canada and obtain government security clearances.
- Valid Manitoba Class 5 driver's license.

JOB DETAILS

Location: Winnipeg
Hours: Daytime Hours,
Monday to Friday
Job Type: Full-time, permanent,
in-office position

COMPENSATION

- Competitive compensation package, including bonuses
- Group Health Benefits
- Pension Matching
- Paid Professional Development
- Paid Professional Association Dues
- Fitness Spending Allowance

Please e-mail your application to careers@crosierkilgour.com.

Although we appreciate all applications, only those short-listed will be contacted for an interview.

Application Deadline: Open