



Structural Engineering & Building Performance

Strong Relationships, Enduring Solutions.

INTERMEDIATE/SENIOR BUILDING SCIENCE ENGINEER/TECHNOLOGIST

Crosier Kilgour is seeking a skilled **Intermediate/Senior Building Envelope Engineer/Technologist** to join our Building Science & Building Envelope Commissioning Group. You will play a key role in the assessment, design, and optimization of building envelope systems for new construction and rehabilitation projects. The ideal candidate brings strong technical expertise, curiosity, and a passion for solving complex building performance challenges. This position involves field investigations, modelling and analysis, preparation of envelope designs, and close collaboration with clients, contractors, and multidisciplinary teams.

Job Responsibilities

Building Envelope Assessment & Field Investigation

- Lead or oversee on-site investigations of building envelope systems including walls, roofs, foundations, waterproofing, cladding, and fenestration.
- Diagnose performance issues related to moisture ingress, air leakage, thermal bridging, condensation, and material deterioration.
- Conduct destructive and non-destructive testing and work with testing specialists as required.
- Conduct thermal, moisture, and structural performance analysis of envelope assemblies.
- Prepare construction documents, specifications, and review of shop drawings.
- Review submittals and provide technical support during construction phases.
- Stay current with building codes, standards, materials, and sustainability practices.
- Mentor junior engineers and technologists.

Engineering Analysis & Design

- Develop practical and durable envelope designs for new construction and rehabilitation projects.
- Experience with thermal and hygrothermal modelling (e.g., THERM, WUFI) and envelope performance analysis an asset.
- Prepare detailed drawings, specifications, and technical documentation.
- Evaluate multiple design solutions considering durability, energy efficiency, constructability, and life-cycle performance.
- Conduct building envelope peer reviews for external project team.
- Apply relevant codes, standards, and best practices for envelope design and existing building performance.

Coordination & Technical Support

- Lead coordination with architects, structural engineers, mechanical engineers, contractors, and other consultants.
- Conduct construction site reviews to confirm conformance with design intent and adapt solutions when required.
- Prepare technical reports summarizing findings, recommendations, and engineering rationale.
- Support project planning including scope development, cost estimating, and scheduling.



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Candidate Requirements

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

Education & Registration

- Bachelor's degree in Civil or Biosystems Engineering or Diploma in Architectural Engineering Technology. Building Science focused an asset but not require.
- Professional Engineer (P.Eng.) or Architectural or Engineering C.Tech. or eligibility for EGM/CTTAM Membership

Experience

- 2–10+ years of experience in building envelope engineering, façade engineering, building science consulting, or building restoration.
- Strong understanding of building science fundamentals, materials, and construction methods.

Skills & Attributes

- Interest in building envelope design, building performance, and on-site investigation.
- Excellent problem-solving skills and attention to detail.
- Excellent written and verbal communication skills.
- Detail-oriented with strong organizational and problem-solving skills.
- Ability to manage multiple projects and work both independently and collaboratively.
- Proficiency in MS Office
- Physically able to conduct field work, comfortable at heights, confined spaces, 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		COMPENSATION
Location:	Winnipeg	<ul style="list-style-type: none">• Competitive compensation package, including bonuses
Hours:	Daytime Hours, Monday to Friday	<ul style="list-style-type: none">• Group Health Benefits
Job Type:	Full-time, permanent, in-office position	<ul style="list-style-type: none">• 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