

Concrete Restoration Specialist

Engineering Link
Toronto, ON

Engineering Link is growing its team.

We are looking for a **Concrete Restoration Specialist** to join our Building Envelope Department. This role is exciting, diverse, and rewarding.

This role focuses on structural rehabilitation of existing buildings, parking structures, balconies, loading docks, etc. The ideal candidate is energetic, enjoys working in a fast-paced environment, and has recently graduated University with a Civil or Structural Engineering degree. This is a perfect opportunity for an individual looking to start their career with a growing engineering firm in downtown Toronto.

Engineering Link offers an open, collaborative work environment and is involved in a variety of commercial, institutional, recreational, and residential projects across Canada. Engineering Link is focused on offering building envelope, concrete restoration and structural engineering services as they relate to the science of the built environment.

In this role, you will complete condition assessments, design and contract administration on a wide variety of existing structures and their moisture protection systems. You will be exposed to conventionally reinforced concrete, precast concrete, post-tension concrete, structural steel, elastomeric traffic deck coating, mastic traffic deck coating, etc.

As part of the Building Envelope department at Engineering Link, you will have the opportunity to experience engineering on many levels. You will work closely with colleagues and senior management on projects throughout all phases.

Desired skills, responsibilities, and qualifications you will need to have:

Skills

- Adaptable: can pivot to meet project and client needs and is able to focus on multiple projects at one time.
- Entrepreneurial: ambitious, client-focused, and quality driven.
- Proactive: takes initiative, analytical, innovative, and is a natural problem solver.
- Team-player: builds positive relationships with colleagues, clients, and acts as an ambassador for Engineering Link in the field.
- Maintains and strengthens existing client relationships, fostering new business opportunities from our existing work.
- Good spatial awareness: Able to conceptualize in 3D and sketch onsite locations and conditions.
- High level of proficiency with Microsoft Word and Excel.
- Able to neatly layout and letter a hand-sketch.

Responsibilities

- Responsible for working on existing concrete rehabilitation projects from cradle-to-grave including condition assessment, design, tender and construction review/contract administration.



- Working independently to perform condition assessments of existing structures and their moisture protection systems (balconies, parking garages, loading docks, tunnels, etc.). Assessment and testing techniques include visual review, acoustic (chain drag) sounding, chloride ion testing, carbonation testing, water leakage testing, etc.
- Authoring condition assessment reports advising clients on general structure conditions, recommended repairs and estimated construction costs.
- Designing repairs for existing structures and moisture protection systems. Systems include conventionally reinforced cast-in-place concrete, precast concrete, post-tensioned concrete, structural steel, elastomeric traffic deck coatings, mastic traffic deck coating, etc.
- Design work includes designing details for the CAD Department, and marking up technical specifications, and quantity estimates.
- Exposure to structural calculations for residual carrying capacities of deteriorated structural elements. Expose to structural calculations for changes in occupancy and use in retrofit designs.
- Tendering design work on behalf of the client to a pool of qualified contractors. Tendering work to include issuing tender call, attending pre-tender site meeting (with Project Principals), issuing addenda as required, summarizing the contractor's costs and being client advisor for award recommendation.
- During construction, responsible for monitoring quality of construction, budget and timelines.
- Working independently to conduct field reviews to ensure construction work is in accordance with the design documents, track unit rate quantities, and track progress for the contractor's payment certification.
- Drafting site review reports summarizing progress and advising on deficiencies. Act as the key contact for the contractor, and work to resolve deficiencies.
- Contract administration tasks include preparation of Certificates of Payment, Contemplated Change Orders, Change Orders, Supplemental Instructions, Substantial Performance Certificates, etc.
- Participating in client meetings from proposal development through to construction review, to understanding client needs, provide support and nurture and develop client relationships and business development.
- Some exposure to building envelope projects- roofing, cladding, etc.- in order to develop a well-rounded understanding of building components and the firm's various business units.

Qualifications

- Bachelor's degree in Civil Engineering or Architectural Science.
- The ideal candidate has co-op or internship experience in building restoration, building science, or structural design at an engineering firm or construction firm. The characteristics we look for are self-motivated, hard-working, and people who form collaborative relationships with colleagues and clients.
- Excellent written and verbal communication skills.
- Has a valid G driver's licence.

A resume is required when applying.

Engineering Link is committed to promoting diversity and employment equity.

Applicants requiring accommodation at any stage in the recruitment process can contact Human Resources. We thank you for your interest in our firm. Please note that only those candidates selected for the next step in the recruitment process will be contacted by Human Resources.