



Safe Roads

ENGINEERING

Job Title: Precast Concrete Engineer / Designer

Company: Safe Roads Engineering Inc.

Reports To: Senior Consulting Engineer

Location: Aurora, ON (In-Person)

Job Type: Full-Time

About Safe Roads Engineering:

Safe Roads Engineering (SRE) strives to provide clients with services and products that are among the best in the industry. We specialize in design engineering, precast concrete structures, overhead sign structures, modular bridges, noise walls, and traffic management plans.

SRE is looking to add a **Precast Concrete Engineer** with extensive precast concrete experience to our team. The successful candidate will work out of our Aurora office, joining our existing concrete and structural team. The candidate will be supervised by a senior consulting engineer and industry experts. They will work with the team members in servicing our precast concrete clients across Canada. They will play a crucial role in servicing our clients by conducting design analysis/calculation, creating detailed drawings and plans for the submission, fabrication and installation of reinforced concrete, precast concrete, and related formwork details in concrete structures. Precision and expertise will ensure the structural integrity and safety of various projects.

Main Responsibilities

- **Technical assessment:** Review contract drawings, tender documents, geotechnical reports, client's requirements and prepare design work plans and budgets.
- **Design analysis and calculation:** Conduct design analysis using finite element software and various design tools. Design calculation according to the codes and standards. Produce design sketches for detailer.
- **Detailing:** Conduct drawing review to ensure the deliverables meet the requirements. The candidate is required to be able to prepare the drawings using AutoCAD when detailing and drawing development.
- **Collaboration:** Collaborate with engineers, contractors, clients and other stakeholders to address design issues, resolve conflicts, and ensure that designs align with the project's structural integrity goals.
- **Project Management:** Prepare quotations and estimates of potential projects. Manage multiple projects and maintain schedule and cost.
- **Communication:** Communicate effectively with project teams, providing technical guidance and support to the clients throughout the production and construction process. Address inquiries and provide clarifications on detailed designs as needed.
- **Documentation:** Prepare and maintain technical and non-technical records. The technical records include but not limited to reports, drawings, key correspondence. Non-technical records include but not limited to invoices.
- **Continuous Improvement:** Continuously improve client service, project cycle efficiency and quality by timely and effective communication, maintenance of in-house resource library, development of in-house design aids and templates etc.



Qualifications

- Professional Engineer (P.Eng.) designation in any of the following provinces: Ontario, Saskatchewan, and Alberta (required).
- Minimum two years of experience in structural design in reinforced concrete.
- Minimum two years of experience in precast concrete manufacturer as an engineer, engineer-in-training, project coordinator and / or quality control technician.
- Bachelor's degree in civil/structural engineering (required).
- Proven experience in engineering and fabrication drawing preparation.
- Proficiency in computer-aided design (CAD) software, including AutoCAD, and any 3D modeling CAD software.
- Knowledge of building codes and highway bridge codes, construction material standards, and industry regulations.
- Strong mathematical and analytical skills for calculating quantities.
- Spatial visualization ability.
- Attention to detail and excellent problem-solving abilities.
- Effective communication skills to collaborate with project teams.
- Ability to manage multiple projects simultaneously and meet deadlines.
- Strong organizational, documentation skills.
- Good working attitude.

What We Offer:

- Competitive salary and comprehensive benefits package.
- Opportunity to lead and assist with high profile projects.
- Career development opportunities for professional certifications.
- Flexible work environment with hybrid options available.

Job Type: Full-Time

Schedule: Monday to Friday

Education: Bachelor's Degree (required), Professional Engineer (P.Eng.) designation in Ontario (required)

Experience: Structural Design, Precast Concrete Manufacturing, 2 years minimum (required)

Work Location: In-person in Aurora, ON L4G 1K1

How to Apply

Interested candidates are encouraged to submit their resume and cover letter outlining their relevant experience to HR@saferoadseng.com.

Safe Roads Engineering encompasses a diverse collection of successful businesses, but our spirit isn't found in the diversity of our portfolio, it's found in the diversity of our people. At SRE, we believe that our greatest opportunity for continued success is fostered in the belief that every voice matters. Each one of us has a unique story and we promise to do our part to ensure that those stories are heard, seen, acknowledged, and supported. We are dedicated to building a diverse, inclusive and authentic workplace, so if you're excited about this role but your experience does not align perfectly with every qualification in the job description, we encourage you to apply anyways. You may be just the right candidate for this or other roles.



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Safe Roads Engineering is committed to meeting the accessibility needs of persons with disabilities in an effective and timely manner in accordance with the applicable standards set out in the Accessibility for Ontarians with Disabilities Act, 2005 (AODA), the provisions of the Ontario Human Rights Code, and any other applicable legislation. We foster an inclusive organizational culture as an Equal Opportunity Employer.

