



Safe Roads

ENGINEERING

Job Title: Civil Engineering Drafter / Detailer

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 **Civil Engineering Drafter/Detailer** to work out of our Aurora office. The candidate will be working alongside our existing concrete and structural team. As a Drafter/Detailer, you will play a crucial role in supporting our consulting engineers in construction and engineering process by creating detailed drawings and plans for the fabrication and installation of reinforced concrete, precast concrete, and related formwork details in concrete structures. Your precision and expertise will ensure the structural integrity and safety of various projects.

Main Responsibilities

- **Review and Interpret Design:** Analyze reinforced concrete design and structural drawings, specifications, and project requirements to understand the rebar needs for concrete structures.
- **Detailing:** Create detailed precast shop drawings or construction drawings including rebar placement plans using AutoCAD and 3D modeling software. Ensure that the drawings adhere to industry standards and project specifications.
- **Quantity Estimation:** Accurately calculate the quantity and size of rebar required for each project, considering factors such as structural loads, building codes, and design specifications.
- **Quality Assurance:** Verify that all detailing and design work complies with industry codes, standards, and safety regulations. Conduct quality checks to eliminate errors and discrepancies.
- **Collaboration:** Collaborate with engineers, contractors, and other stakeholders to address design issues, resolve conflicts, and ensure that designs align with the project's structural integrity goals.
- **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:** Maintain accurate records of all detailing work, including drawings, revisions, and change orders.
- **Continuous Improvement:** Stay updated on industry trends, technologies, and best practices in detailing. Suggest process improvements to enhance efficiency and accuracy.

Qualifications

- Bachelor's degree in civil engineering, construction management, or a related field.
- Proven experience as a Detailer or a similar role in the construction or precast manufacturing industry.



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- 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 related to detailing.
- 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 and 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)

Experience: Detailer, Construction/Precast manufacturing industry (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.

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.