



Job Description – Senior Lead Precast Engineer

Location: Mississauga, ON, Canada

Department: Engineering – Precast Structures

Reports To: Engineering Director

Company Description

Building Theory provides a range of services including the design of simple to complex structures and buildings, precast systems manufacturing and installations, 3D-6D modeling, BIM, and construction temporary structures. We handle projects from infrastructure improvements to large-scale ventures exceeding \$100 million. Our approach includes understanding client goals to ensure efficient design and cost savings. We serve various sectors including commercial, industrial, residential, educational, and healthcare, and maintain a core group of satisfied repeat clients.

Position Overview

We are seeking a highly skilled **Senior Lead Precast Engineer** with proven expertise in **precast concrete systems** and preferably **complex large scale projects**. The ideal candidate will lead the structural engineering team, ensuring the delivery of innovative, efficient, and cost-effective structural solutions that meet client requirements, local codes, and international standards. **US experience is considered an asset.**

Key Responsibilities

- Lead and manage the structural engineering design process for complex building and infrastructure projects, with emphasis on **precast systems** and **data centers**.
 - Develop structural concepts, design calculations, specifications, and detailed construction drawings.
 - Perform structural analysis using industry-standard software and ensure compliance with international codes (ACI, AISC, ASCE, IBC, etc.).
 - Coordinate with multidisciplinary teams (architecture, MEP, civil, sustainability) to ensure full design integration.
 - Provide technical leadership and mentoring to junior structural engineers and CAD/BIM technicians.
 - Review contractor submittals, shop drawings, and respond to RFIs during construction.
 - Engage with clients, stakeholders, and external consultants to communicate technical solutions and resolve design challenges.
 - Ensure adherence to QA/QC processes, safety regulations, and project schedules.
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Qualifications & Experience

- Bachelor's or Master's Degree in Civil/Structural Engineering.
- Professional Engineering License (P.Eng/PE/SE); international chartered status is an asset.
- **10+ years of structural engineering experience**, with demonstrated leadership in **precast concrete** design and delivery.
- Previous involvement in **data center projects** is desirable.
- Strong understanding of Canadian building codes, standards, and permitting processes.
- Proficiency in structural design software (ETABS, SAP2000, STAAD.Pro, Revit Structure, Tekla, AutoCAD).
- Excellent leadership, communication, and team management skills.
- Ability to work under pressure, manage multiple priorities, and deliver high-quality outputs on time.

Why Join Us?

- Opportunity to work on **world-class, mission-critical data center projects**.
- Lead a team in a collaborative and innovation-driven environment.
- Competitive compensation package.
- Career growth opportunities with exposure to global engineering practices.

Due to the strategic importance of this role, all applications are handled with the utmost discretion.

Interested candidates are invited to submit their credentials directly to our CEO via ben.bayat@buildingtheory.com. Please use the subject line: "Confidential Submission: Senior Lead Precast Engineer".

