

# Precast Design Engineer

## Company Description:

Building Theory specializes in designing and developing structures, precast systems, and building solutions for projects of all scales — from infrastructure improvements to multimillion-dollar ventures. We leverage advanced technologies, including BIM and 3D-6D modeling, to deliver efficient, cost-effective solutions with a strong focus on aesthetic design and construction savings.

Our client portfolio spans commercial, industrial, residential, educational, and healthcare sectors, including industry leaders. Building Theory is committed to fostering long-term partnerships with clients through a dedication to excellence, innovation, and customer satisfaction.

## Position Overview:

This is a full-time, on-site position for a Design Engineer based in our Mississauga office. We are seeking a highly skilled Design Engineer with proven expertise in precast concrete systems. The ideal candidate will ensure the delivery of innovative, efficient, and cost-effective structural solutions that meet client requirements, local codes, and international standards. US experience is considered a strong asset.

## Key Responsibilities:

- Manage the engineering design process for complex building and infrastructure projects, with emphasis on precast systems.
- Develop structural concepts, design calculations, specifications, and detailed construction drawings.
- Perform structural analysis using industry-standard software and ensure compliance with Canadian and international codes.
- 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.
- Ensure quality control and compliance with project requirements
- Identify risks proactively and implement effective solutions
- Maintain high standards of performance, professionalism, and client satisfaction

## Qualifications & Experience:

- Bachelor's Degree in Civil/Structural Engineering.
- Professional Engineering License (P.Eng/PE)
- 7-10+ years of structural engineering experience, with demonstrated leadership in precast concrete design and delivery.
- Strong understanding of Canadian/US 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.

## What is MUST:

- Valid working visa without requirement of sponsorship
- Having civil or structural engineering background
- Having Precast experience
- Ability to work under pressure, manage multiple priorities, and deliver high-quality outputs on time.

## Why Join Building Theory

- Work on high-profile, technically complex projects
- Be part of a growing, forward-thinking engineering firm
- Collaborate with a highly skilled, multidisciplinary team
- Clear opportunities for career growth and leadership advancement
- Competitive compensation based on experience
- Professional, fast-paced, and collaborative work environment in Miami

If you're a results-driven Design Engineer ready to lead impactful projects and grow with a dynamic firm, we'd love to hear from you by emailing your cover letter and CV to [Ben.Bayat@buildingtheory.com](mailto:Ben.Bayat@buildingtheory.com).