



## **Building Engineer (Structural)**

**Two (2) temporary, full-time positions – Toronto, ON**

**Are you a Professional Engineer, experienced in applying Ontario Building Code requirements in the architectural, structural and/or fire protection fields? Does your knowledge base cover all aspects of structural analysis and design, building construction, building sciences and related legislation? If so, this is a great time to join the Toronto Building Division.**

Reporting to the Manager, Plan Review, you'll examine architectural, structural, excavation shoring, fire protection and electrical plans and specifications for projects submitted by applicants for building and demolition permits, to ensure compliance with Ontario Building Code (OBC) requirements, other By-Laws and standards, and structural adequacy. As a Building Engineer (Structural) with the City of Toronto, you'll carry out all your duties in accordance with the Professional Engineers Ontario Code of Ethics and the Professional Engineers Act.

### **MAJOR RESPONSIBILITIES**

Your primary responsibilities as a Building Engineer (Structural) will be varied, but you'll be expected to:

- Examine architectural and structural drawings, including excavation shoring, electrical, fire alarms, detection and suppression systems, to determine compliance with Ontario Building Code requirements, and evaluate alternative proposals, including consultants' reports
- Interpret the requirements of the Ontario Building Code in the area of expertise, using good engineering practice and judgements
- Provide technical assistance on Ontario Building Code interpretations and the degree of compliance indicated by documents, and provide solutions to problems
- Manage and prioritize large projects and assignments to ensure effective delivery of services
- Provide supervision to project staff, as required
- Conduct regular meetings with all internal and external stakeholders to provide technical advice on Ontario Building Code interpretation to building plans, resolve conflict and provide solutions to ensure compliance
- Liaise with the Fire Services Division, Plan Examiners and Building Inspectors to interpret requirements of the Ontario Building Code and decide on the degree of compliance indicated by plans and specifications, and provide guidance and expertise
- Evaluate reports on alternative solutions to present building regulations submitted by architects, engineers or fire protection consultants, in order to determine whether the proposal provides the level of performance required by the Ontario Building Code, based on merit and engineering principles
- Respond verbally and/or in writing to all inquiries from internal and external stakeholders regarding building requirements of the Ontario Building Code
- Conduct site inspections with Building, Heating, Plumbing and Toronto Fire Inspectors to evaluate, investigate and resolve problems of complex technical nature, including structural failures on site
- Provide technical advice and prepare expert witness reports to City lawyers
- Appear and give evidence in court on Ontario Building Code and other building regulatory matters and give presentations at the Building Code Commission in matters of disputes over Ontario Building Code interpretation
- Prepare written reports, as necessary
- Participate on interview panels, as required
- Develop and implement detailed plans and recommend policies regarding program-specific requirements
- Manage assigned projects, ensuring effective teamwork and communication, high standards of work quality and organizational performance, and continuous learning
- Evaluate, make recommendations on, and prepare reports on unusual site conditions affecting building structure and design

- Conduct research into specific topics, ensuring that such research takes into account developments within the field, corporate policies and practices, legislation and initiatives by other levels of government
- Provide advice to district and divisional management team, as requested
- Assist the Plan Review Manager, provide cover-off, act as Case Manager for large and complex projects, and assist in the preparation of Conditional Permits

## KEY QUALIFICATIONS

Your application for the role of **Building Engineer (Structural)** must describe your qualifications as they relate to:

1. Must be a qualified Engineer as defined by Professional Engineers Ontario.
2. Considerable experience as a Building Engineer/Plan Examiner or considerable experience in structural design.
3. Considerable experience applying Ontario Building Code requirements pertaining to one or more of the following disciplines: architectural, structural, or fire protection.
4. Considerable design experience with OBC-referenced material design standards such as, but not limited to: A23.3 Design of Concrete Structures, S16 Design of Steel Structures, S304.1 Design of Masonry Structures, O86 Engineering Design in Wood, and S-136 North American Specification for the Design of Cold-Formed Steel Structural Members.
5. Experience with computer applications such as MS Office, AutoCAD and other engineering or architectural software.
6. Experience using structural programs in at least one of the following or similar programs: SpSlab, SpColumn, S-Concrete, S-Line (formerly B-Line), S-Frame, SAP 2000, ETABS, SAFE, and WoodWorks Sizer.
7. Possession of, or in the process of obtaining, the following Ministry of Municipal Affairs and Housing qualification requirements for building officials: General Legal, House, Small Buildings, Large Buildings, Complex Buildings, and Buildings Structural.
8. Possession of, and ability to maintain, a valid Ontario Class "G" Driver's Licence and access to a properly insured vehicle.
9. Knowledge and understanding of all aspects of structural analysis and design, building construction, building sciences and related legislation.
10. Knowledge of, and ability to apply, the Ontario Occupational Health and Safety Act and Regulations relevant to building construction.
11. Proficiency with electronic markup and review software such as Adobe Acrobat Pro/Standard, or Bluebeam Revu.
12. Excellent verbal and written communication skills.
13. Good interpersonal, problem-solving and conflict management skills.
14. Effective teamwork and communication skills, high standards of work quality and organizational performance, and a commitment to continuous learning and mentorship.
15. Ability to plan, organize and manage work with minimal supervision and complete assigned duties accurately and within timelines.
16. Ability to handle confidential and sensitive information with discretion and tact.
17. Ability to support the Toronto Public Service values to ensure a culture that champions equity, diversity and respectful workplaces

Certificate of Certified Building Code Official from the Ontario Building Officials Association is an asset.

### Notes:

- Applicants are required to demonstrate in their resume/cover letter that their qualifications match those specified in the job posting.

**Salary Range:** \$103,303.20 - \$121,375.80 per year

**Toronto** is home to more than 2.9 million people whose diversity and experiences make this great city Canada's leading economic engine and one of the world's most diverse and livable cities. As the fourth largest city in North America, Toronto is a global leader in technology, finance, film, music, culture, and innovation, and consistently places at the top of international rankings due to investments championed by

its government, residents and businesses. For more information, visit [jobs.toronto.ca](https://jobs.toronto.ca) or follow us on Twitter at [Twitter.com/CityTOjobs](https://twitter.com/CityTOjobs), on LinkedIn at [Linkedin.com/company/city-of-toronto](https://www.linkedin.com/company/city-of-toronto) or on Facebook at [Facebook.com/CityTOjobs](https://www.facebook.com/CityTOjobs).

### **How to Apply:**

For more information on these and other opportunities with the City of Toronto, visit us online at <https://jobs.toronto.ca/jobsatcity/>. To apply online, submit your resume, quoting **Job ID 12627**, by **Wednesday, May 27, 2021**.

### **Equity, Diversity and Inclusion**

The City is an equal opportunity employer, dedicated to creating a workplace culture of inclusiveness that reflects the diverse residents that we serve. Learn more about the City's commitment to [employment equity](#).

### **Accommodation**

The City of Toronto is committed to creating an accessible and inclusive organization. We are committed to providing barrier-free and accessible employment practices in compliance with the Accessibility for Ontarians with Disabilities Act (AODA). Should you require Code-protected accommodation through any stage of the recruitment process, please make them known when contacted and we will work with you to meet your needs. [Disability-related accommodation during the application process is available upon request](#). Learn more about the City's [Hiring Policies and Accommodation Process](#).