

## **Job Description: Junior Structural Engineer**

Position requires thorough knowledge of civil/structural design and engineering techniques. Responsible to plan and conduct independent work requiring judgment in the evaluation, selection, application and adaptation of engineering techniques, procedures and criteria. Devise new approaches to problems, and prepare or modify drawings, specifications, calculations, charts and graphs, and monitor work for compliance to applicable codes, and accepted engineering practices.

### **Typical Duties:**

Typical duties will include but not be limited to the preparation and/or modification of the following:

- Structural engineering calculations.
- Structural engineering plans, design, and layout.
- Structural project specifications.
- Structural engineering portion of project proposals.
- Structural engineering portion of project cost estimates.

### **Essential Functions:**

Responsibilities will include but not be limited to the following:

- Perform structural design and analysis calculations using governing codes and standards, engineering formulas, skills, and experience.
- Layout and detail portions of projects using schematic layout by project lead engineer. May be assigned responsibility for schematic or conceptual layouts when qualified.
- Provide drawing for own designs and produce sketches to incorporate in drawings by Designers/Drafters.
- Research design options and document findings for project lead engineer.
- Review shop drawings.
- Assume the lead engineer's role on assigned projects.
- May serve as Project Engineer and as a designated Client contact on smaller, less complex projects.
- Develop probable construction cost estimates for his/her projects within the department.
- May direct and supervise other Designers/Drafters activities.
- Coordinate work with other disciplines such as architectural, mechanical, electrical, geotechnical, etc.
- Handle routine contract administration.
- Attend and participate in Client meetings.
- Perform field activities such as observe and record existing field conditions, take and verify measurements within project area.
- Prepare and write technical reports.
- Capable and experienced in managing and performing projects in a fast paced environment.

**Education/Experience:**

Bachelor of Science degree in Civil Engineering, and 2-4 years of experience with knowledge in civil and/or structural engineering, obtainable usually through a combination of experience and continuing education

**Skills and Special Requirements/Licensing:**

- Licensed or eligible to be licensed with APEGA to practice structural engineering in the province of Alberta.
- StaadPro or equivalent finite element analysis software.
- Working knowledge of AutoCad and Revit or other drafting software.
- Excellent computer skills in Microsoft Office Suite.
- Strong communication and technical writing skills

**Company Profile:**

BCB Engineering Ltd is a structural consulting firm located in Lethbridge, AB. We are a small firm with currently less than 10 employees. We focus mainly on commercial, industrial, institutional and agricultural buildings. We also provide equipment and crane designs for the food processing, manufacturing and agricultural industries. Our outside the box design approach, innovative solutions and strict adherence to time schedule distinguishes **BCB** from the rest.

[www.bcbengineering.com](http://www.bcbengineering.com)

**Email: [career@bcbengineering.com](mailto:career@bcbengineering.com)**

Please submit your Cover Letter and Resume in Word Format (.doc) with embedded color photo (.jpeg) to the email address given above. Please ensure that your qualifications and experiences meet the requirements stated above. Interviews will be held in Lethbridge. Only short-listed applicants will be called for an interview. Please mention the expected salary along with possible date of joining. Include a list of 3-5 projects you have personally worked on.