

**Status:** Exempt

**Reports To:** *Department Manager*

### **Job Description**

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, accepted engineering practices and Eichleay standards.

### **Typical Duties:**

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

- Civil/Structural engineering calculations.
- Civil/Structural engineering plans, design, and layout.
- Civil/Structural project specifications.
- Civil/Structural engineering portion of project proposals.
- Civil/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 details 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, etc.
- Handle routine contract administration.

- Use computer-assisted engineering and design software and equipment to prepare engineering design documents.
- Attend and participate in Client and Eichleay meetings.
- Perform field activities such as observe and record existing field conditions, take and verify measurements within project area.
- Organize, draft, and coordinate technical documents.
- Capable and experienced in managing and performing projects in a fast paced environment.

**Education/Experience:**

- Bachelor of Science degree in Civil Engineering, and over seven years of experience with advance knowledge in civil and/or structural engineering, obtainable usually through a combination of experience and continuing education; or
- Master of Science degree in Civil Engineering, and over six years of experience with advanced technical knowledge in civil and/or structural engineering, obtainable usually through a combination of experience and continuing education; or
- Equivalent combination of education, training and experience.

**Skills and Special Requirements/Licensing:**

- StaadPro or equivalent finite element analysis software.
- Experience in working with multiple discipline projects with BioProcess and/or Petrochemical Clients.
- Excellent computer skills in Microsoft Suite.
- Licensed SE, PE or EIT is preferred.
- Pre-employment drug and alcohol screening.
- Background screening including previous employment, education, criminal history, and driving record verification.

**Work Environmental & Physical Demands:**

The characteristics described below are representative of those encountered while performing the essential functions of this position. Reasonable accommodations will be made to enable individuals with disabilities to perform the essential functions.

- While performing duties of this job, would occasionally be required to stand, walk, sit, reach with hands and arms, climb or balance, stoop or kneel, talk and hear, and use fingers and hands to feel objects, tools or controls.
- Must occasionally lift and/or move up to 25 pounds.
- Specific vision abilities required include close vision, distance vision, depth perceptions, and the ability to adjust focus.



## CIVIL/STRUCTURAL ENGINEER

- Overtime may be necessary as workload's dictate. This may include weekdays, weekends and/or holidays.
- Job will generally be performed in an office environment, but may require travel to visit a Client's office, production facility or industrial/construction job site. Conditions will vary at each location, but the conditions listed above will generally apply.
- May be assigned to work at a Client's office, facility or site for an extended period of time. Conditions will vary at each location, but the conditions listed above will generally apply. When performing outside Eichleay's office, appropriate safety training and safety equipment will be provided by Eichleay and/or Client as required.