



Structural Engineer

General Description of Position

Structural Engineers perform a variety of tasks related to the creation, execution, and evaluation of many types of designs and/or design projects. Our company provides a variety of engineering services in all types of industries, including industrial, commercial, municipal, and occasionally residential. Typical tasks assigned to an engineer at our firm may include evaluating existing structure or conditions, determining necessary improvements, collaborating with colleagues and clients to determine appropriate design elements, 2D and 3D modeling of design concepts or existing conditions, construction site monitoring or inspections, and more as determined necessary.

Structural Engineer Duties and Responsibilities

- Follow project instructions from managers and/or supervisors.
- Follow all government and company health and safety regulations when on jobsite, including the proper use of Personal Protective Equipment (PPE).
- Complete all assigned tasks in a timely and efficient manner.
- Develop design concepts and present ideas to principal engineer and/or clients, as needed.
- Keep project status updated in project management system.
- Create project drawings and/or documents.
- Modify drawings based on decisions made prior, during, and after construction phases.
- Maintain strong communication between colleagues and clients.
- Answer questions presented by construction personnel, clients, and supervisors.
- As assigned.

Structural Engineer Requirements

- Bachelor's degree in civil and/or structural engineering with experience in structural design.
- Experience in Industrial and Municipal projects as a member of the engineering team, particularly with heavy steel and concrete construction.
- Experience and proficiency in calculations, proofs, and other validation methods of structures, assemblies, or other as necessary. Experience with FEA software a plus.
- Ability to travel, as necessary, to project sites and client meetings or as assigned.
- Experience with computer systems including Autodesk AutoCAD, Revit, Microsoft Office, and other production related programs and systems.

- Attention to detail, both macro and micro.
- Valid Driver's License
- Positive attitude and consistent work ethic
- Able to work independently or as an active member of a team, along with outside consultants.
- Good interpersonal skills and communication with all levels of management, including reporting, verbal, and written.
- Ability to work overtime, as needed to meet project deadlines.
- Other duties as assigned.

Structural Engineer Preferences

- Existing familiarity with IBC, ASTM, ASCE, and other relevant code, regulation, and/or governing body related to construction and engineering design.
- Experience with Layout Tools, including but not limited to Hilti Total Stations (PTL 300, POS 180, etc.), laser levels, theodolites, digital and analog measuring devices.
- Experience with FEA systems, including SolidWorks, Dassault Abaqus, Revit Structural, STAAD, and similar.
- 2+ years in a professional engineering environment