



Position Title:

Structural Engineer

P.E or S.E.

Reports To:

Engineering Manager

Job Purpose:

Provide design analysis and calculation documentation for all facade systems as mandated by the project specific design criteria. Provide design, consultation, and direction in the research and development of new systems and products, as well as, maintaining the performance testing needs or updates on existing systems. Provide advice and direction in pre-bid phase at the request of the Sales Department

Responsibilities:

- On a project specific basis, perform structural calculation analysis for facade systems based on design criteria for the job. The design calculations should include written direction to the fabrication detailers as to the necessary structural requirements for the panels. Typical structural calculations to include stress and deflection analysis, as well as, comprehensive review of sub-framing and fasteners as needed.
- Perform design analysis for new systems and/or fabrication procedures.
- Provide consultation and direction on an as needed direction to Project Management staff and company personnel in regards to design engineering needs.
- Perform drafting assistance with approval drawings and/or fabrication drawings on an as needed basis.
- Attend and participate in project specific meetings to discuss a multitude of potential subjects including but not limited to, project design, scope, schedules, etc. as required.

Requirements:

- An in depth understanding of engineering principles and structural design practices. Ability to regularly perform calculations involving statics and solid mechanics (stress, strain, beam theory) is a requirement.
- Proficient in the use of computer aided design software (AutoCAD), as well as, structural design software (RISA, STADD, etc.).



- Ability to make Excel spreadsheets and/or use other mathematical software (Mathcad) to document calculations and design decisions.
- Familiarity with the following codes and/or standards: current ASCE, AISC Steel Manual, Aluminum Design Manual, International Building Code (IBC), ACI 318, and AISI North American Specification for the Design of Cold-Formed Steel Structural Members.
- The ability to read and interpret Contract Documents including but not limited to, architectural drawings, structural drawings, project specifications and estimator takeoffs.
- The ability to interact and communicate effectively (both written and oral) with in-house Project Management staff, as well as, with customers, Architects, and Engineers (on an as needed basis).
- A general understanding of construction practices, principles, methods and techniques.
- The ability to perform in a challenging and often stressful environment while under stringent deadlines.

Work Context:

- A high degree of accuracy and exactness is extremely important in the performance of this job.
- An aptitude for visualization and 3-dimensional thinking is a necessity for this position.
- Present yourself in a professional and courteous manner at all times.
- The aspiration to discover new technologies and offer ideas in an effort to improve processes and procedures is a plus.
- Excellent written skills to communicate with other professionals are important for this position

Education and Experience:

- Four year degree in Engineering (Civil/Structural and Mechanical degrees considered).
- Current Professional Engineering or Structural Engineering license in the State of Georgia
- 2-year minimum as a practicing licensed Professional Engineer

Physical Demands:

- Standard in-office task