



TWEET/GAROT MECHANICAL, INC.

STRUCTURAL ENGINEER

Summary:

Structural Engineer is responsible for performing civil and/or structural engineering as incidental to projects including process, HVAC, mechanical and machine-related engineering and design.

Essential Duties and Responsibilities:

- Develop bids, proposals, scopes of work, scope changes, correspondence, estimates, schedules, material lists, specifications, design concepts, design drawings and other project documentation per customer and corporate guidelines
- Perform field work and technical research
- Perform technical studies and calculations
- Maintain project files and documentation
- Certify accuracy and completeness of all deliverable products and services in assigned areas of responsibility
- Allocate tasks to Mechanical Designers
- Maintain budget and schedule

Qualifications:

- BSCE, BSCET, OR ASCET
- Wisconsin PE License
- 15+ years of heavy industrial experience
- Experience with equipment foundations/supports, piping supports, process buildings, and access platforms
- Experience with water flow analysis, civil structures, plumbing design, sewer design, etc.
- Retrofit experience
- Knowledge of relevant risk management issues (contractual terms, technical feasibility, etc.)
- Working knowledge of OSHA, API-620, API-650, NFPA 13, IBC, AISC, ACI-318, ACI-530, AISI, and ASCE-7 codes
- Experience in various types of steel and concrete construction methodologies
- Experience in conventional and deep foundation systems
- Experience in preparing structural and civil construction plans and specifications
- Working knowledge of static and dynamic load applications
- Understanding of the structural considerations associated with demolition of both structures and equipment
- Working knowledge of alternative materials and construction methodologies as may be necessary to facilitate clients' needs
- Working knowledge of earth pressures and their effect on design

- Working knowledge of considerations of other trades as related to efficiently designed structural systems
- Working knowledge of machining and fabrication practices and methods
- A good understanding of and sensitivity to maintenance & constructability considerations in all design applications
- Experience developing scopes of work, cost estimates, and schedules
- Proven project management skills
- Working knowledge of Windows, Microsoft Office, Microsoft Project, various CAD software packages, various structural and civil software packages

Preferred Qualifications:

- SE License
- Alaska PE/SE License
- Experience with Autodesk Inventor
- Experience with Revit Structure
- Experience with RISA Program
- Experience with AutoCAD