

Mechanical Engineer

Qualifications

- BS in Mechanical, Civil, or Aerospace Engineering.
- 0- 5+ Years experience in Metal Fabrication, Machining, Welding, or related manufacturing industries.
- Experience in pressure part design in accordance with ASME codes.
- Expertise in structural/stress analysis through FEA and calculation (e.g., MathCad, Cosmos, Excel).
- Proficiency with a CAD package, preferably AutoCAD, CADKEY, & Solidworks.
- Ability to read engineering drawings that include weld symbols and machining tolerances.
- Strong familiarity with one or more of the following manufacturing processes: welding, sheet metal fabrication, structural steel fabrication, machining, metal forming, tool design.
- Computer proficiency, particularly with Microsoft Office applications.
- Good understanding of metallurgy and mechanics of materials and how they are affected by welding, thermal processing, corrosion, fatigue, etc. is important.
- Strong knowledge of industrial piping systems and components, including application and analysis, is very desirable.
- Must be well organized and able to work under pressure in order to meet deadlines, manage multiple projects simultaneously and respond quickly to customers.
- Aggressive, self-directed, dynamic person who can motivate and develop subordinates and peers.
- Ability to act decisively, when presented with incomplete or ambiguous information, based on sound engineering judgment and business/commonsense.

Responsibilities

- Design pressure parts in accordance with ASME Section B31.3/B31.1/Section VIII.
- Assist Sales Department to develop proposals.
- Perform and/or assist in studies for economical/technical optimization of products.
- Produce and review engineering drawings for accuracy.
- Perform product failure analysis and work to prevent recurrence through manufacturing process improvement and engineering design.
- Develop and/or improve manufacturing and engineering processes such as weld procedures and engineering workflow.
- Interface with Sales, Purchasing, and Manufacturing departments.
- Communicate daily with clients to resolve technical issues.
- Development of internal engineering standards and compliance with external standards (e.g. ASME codes, client specifications, quality standards, etc.)