



TWEET/GAROT MECHANICAL, INC.

CUSTOM EQUIPMENT DESIGNER

Summary:

In conjunction with the Custom Equipment Design Department, the Food and Beverage Designer is responsible for preparing routine layouts, design and modeling of equipment, detail drawings, and sketches.

Essential Duties and Responsibilities:

To include the following; other duties may be assigned:

- Generate 3D models and working detail drawing for equipment fabrication, complex sheet metal components, layouts and construction installation.
- Assist in completing projects from initial customer contact through installations with minimal supervision.
- Create and revise production drawings (detail and assembly drawings).
- Produce drawings and layouts based on engineering and project management outlines, sketches, or drafts.
- Utilize knowledge of various machines, engineering practices, mathematics, building materials and other physical sciences to complete drawings.
- Generate design changes to reduce costs, improve manufacturability and tailor existing designs to meet customer requirements.
- Perform and/or verify engineering testing/calculations of stress and flow for product performance and safety margins.
- Review customer's request for quote (RFQ) and specifications to develop preliminary design concepts.
- Participate in design reviews.
- Communicate with vendors and customers utilizing a basic understanding of electrical controls and instrumentation.
- Research, analyze and calculate data such as customer design proposals, specifications, and manuals to determine feasibility of design or application.
- Consult with designers, engineers, and customer staff to develop project scopes, process designs, feasibility studies, equipment specifications, cost estimates, and project schedules.
- Assist in equipment selection, process equipment layout, and overall process functionality.
- Responsible for the preparation of documents including project status reports, project schedules, construction drawings, field sketches, etc.
- Coordinate with project team members, client/customer contacts, and third-party suppliers or contractors to achieve project goals and objectives.
- Communicate project status at regular intervals and as needed.

Required Qualifications/Experience:

- 4-6 years design/engineering experience in the food and beverage, process and packaging industries.
- 3+ years of experience utilizing Autodesk Inventor and AutoCAD or comparable software.
- Engineering degree is desired, but not required.
- Basic to moderate knowledge and understanding of stainless steel metal fabrication practices.
- Excellent written and oral communication skills.
- Ability to work with all levels of employees.
- Basic computer knowledge, including Microsoft Word, Excel and Outlook.

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