**Mechanical Design Engineer**

This position provides design efforts from inception through production, both in new product design and in existing product redesign.

**Essential Functions**Review customer source control drawings, specification control drawings, and other applicable specifications to determine the requirements and/or feasibility of the component.

* Perform all necessary calculations, such as stress analysis, performance analysis, pressure drop and flow analysis, etc., as required.
* Develop 3D modeled designs with supporting documentation including drawings, BOMs, and other associated data to support manufacturing processes.
* Prepare preliminary design proposal(s).
* Interact with production personnel to define and solve manufacturing/design issues and implement cost-reduction ideas regarding company products.
* Perform liaison between engineering and all manufacturing operations for related issues, problems, or improvements.
* Define problem areas and implement product improvements based on customer repair/rejection concerns.
* Participate in engineering and general design review as required.
* Refine and complete designs after design review meetings.
* Prepare proposal documentation.
* Prepare technical data such as qualification test procedures, acceptance test procedures, reports, component maintenance manuals, etc.
* Interact with customers on engineering design to meet customer specifications and support answering any questions/problems they may have.
* Interact with vendors concerning parts they supply or propose to supply to the company.
* Coordinate as required with internal groups, including purchasing, quality control, sales, production, accounting personnel, metal finishing, and assembly.
* Advise Supervisor of work status, workload, problems, and progress related to work assignments.
* Consistently adhere to assigned work schedule, ensuring punctuality and reliability.
* Other duties as assigned by Supervisor.

Skills Required

* Mathematical skills, including advanced calculus, statistics, and other math subjects to analyze and design.
* Creativity in working with design problems.
* Technical skills include Solid Works, Draft Sight
* BOM Management
* Experience in 3D Modeling.
* Analytical thinking to identify problems, troubleshoot, and develop design solutions.
* Time Management to prioritize tasks, make and adhere to deadlines, and create timelines for completion.
* Communication to listen, process, and understand design requests and explain technical matters.
* Teamwork to collaborate with other engineers, draftsmen, and manufacturing employees.
* Ability to work independently on projects from start to finish.
* Work safely without presenting a direct threat to self or others.
* Compliance with all safety rules and guidelines.
* A strong work ethic, attention to detail, and a positive team attitude.

**Education and Experience requirements**

* Bachelor of Engineering Degree in of Mechanical Engineering or equivalent from four-year college.
* Four or more years of related experience and/or training; preferred, not required.
* Experience in designing for a manufacturing environment is preferred
* Job offers are contingent upon passing a drug screen.