



Job Title: Mechanical Engineer
FLSA Status: Exempt
Reports To: Engineering Manager
Supervises: None
Date: November 2020

Essential Functions

1. Applies knowledge of conventional and computerized drafting techniques and procedures, design, manufacturing processes and limitations using computerized work aids.
2. Reviews and analyzes specifications, sketches, engineering drawings, ideas, and related design data to determine factors affecting component designs.
3. Lays out major or minor components, assemblies, or systems into working layouts.
4. Performs the design of mechanical components and coordinates the generation of necessary detail and tooling drawings.
5. Recommends mechanical components and manufacturing materials.
6. Assists purchasing in the selecting and approving component, material, tooling and process vendors.
7. Assists in the evaluation of finished parts and assists in the establishment of quality criteria.
8. Assists in problem solving and design improvements when required.
9. Reads, analyzes and interprets technical documents to define problems and establish facts.
10. Comply with all safety policies, practices and procedures. Report all unsafe activities to supervisor and/or Human Resources.

Required Education and Experience

1. Bachelor's Degree (Mechanical Engineering) or two-year associates degree or other postsecondary training in engineering technology.
2. Minimum of eight years in product design using 3D drafting and layout

Special Skills & Qualifications:

1. Experience in designing esthetically pleasing consumer and commercial products.
2. Proficiency with AutoCAD and AutoCAD Inventor, engineering drafting principles, geometric layout and dimensioning. Experience with 3D modeling, and designs for injection molding, and metal fabrication required.

3. Creative ability to develop functional and aesthetically pleasing designs.
4. Ability to solve problems, develop creative solutions and perform work with a high level of accuracy and attention to detail. Ability to team with senior engineering staff to develop and document mechanical designs.
5. Exceptional mechanical design capabilities, including extensive product development and design for manufacturing experience.
6. Track record of solid technical leadership with preference given for experience designing products for manufacture.
7. Strong work ethic and leadership and capabilities as a team leader/participant for assigned projects from inception to completion.
8. Understands the functional requirements of the company's products.
9. Proficiency with AutoCAD and AutoCAD Inventor, engineering drafting principles, geometric layout and dimensioning.
10. Experience with 3D modeling, and designs for injection molding, and metal fabrication required.
11. Creative ability to develop functional and aesthetically pleasing designs.
12. Ability to solve problems, develop creative solutions and perform work with a high level of accuracy and attention to detail.
13. Ability to team with engineering staff to develop and document mechanical designs.

Work Environment

1. Well-lighted, heated and/or air-conditioned indoor production setting with adequate ventilation and moderate noise.
2. May work with or near moving mechanical equipment.

Physical Demands

Light physical activity performing non-strenuous daily activities of a productive/technical nature to work from a sitting or standing position.

1. Manual dexterity sufficient to reach/handle items and work with the fingers.
2. Must be able to bend, stoop, squat, crouch.
3. Must be able to stand for long periods of time.
4. Must be able to lift up to 10 pounds, with or without assistance.
5. Must be able to sit for long periods of time.