

# **JOB DESCRIPTION**

## **Mechanical Engineering**

**Job Title:** Mechanical Engineer  
**Department:** Production Support  
**Reports To:** CEO  
**FLSA Status:** Exempt  
**Prepared By:** Human Resources  
**Prepared Date:** 6/29/2021

### **Summary**

The Mechanical Engineer is responsible for implementing, improving, and optimizing processes for the molding and assembly areas within the organization to improve safety, quality, delivery, and costs. Use computer-aided drafting software to develop layouts, drawings and designs that meet engineering specifications. Reviews engineering drawings, analyzes design and retrieves information to complete drawing, layout or design. Work with Design team to develop, set, and maintain the company's CAD standards and procedures. Work as a liaison between customers and internal production, engineering, and quality departments to promote efficiency, implement corrective actions, and promote continuous improvement. In this position you will develop written work instructions, testing procedures, fixturing, and recommend tooling requirements and changes as needed.

Design Tanks is seeking a **Mechanical Engineer** to join our growing team of diverse professionals. The selected candidate will have the opportunity to help bring an exciting new certification and quality standard (ASME RTP-1) and help to develop new processes and workflows.

### **Essential Duties & Responsibilities**

- Assist with revisions and improvements to manufacturing methods and procedures.
- Develops, modifies, applies and maintains quality evaluation and control systems and protocols
- Work with external resources to ensure quality design, performance and resolve issues
- Collaborates with engineering and manufacturing functions to ensure quality standards are in place
- Devises and implements methods and procedures for inspecting, testing and evaluating the precision and accuracy of products and production equipment
- Designs and analyzes inspection and testing processes, mechanisms and equipment; conducts quality assurance tests; and performs statistical analysis to assess the cost of and determine the responsibility for, products or materials that do not meet required standards and specifications
- Audits quality systems for deficiency identification and correction
- Ensures that corrective measures meet acceptable reliability standards, and that documentation is compliant with requirements
- Assist with the administration of regulatory reporting, hazardous materials & quality programs
- Develop 2D and 3D drawings suitable for manufacturing specifications
- Work extensively with CAD software (SolidWorks, DriveWorks, etc) providing technical support, customizing programs, developing and implementing standards, automating drawings, etc...
- Drafting of customer specific requirements.
- Ability to perform effective root cause analysis investigations
- Ensures continuous compliance to the NSF-61 & RTP-1 standard
- Develop and analyze new work instructions to achieve consistent quality that meets applicable standards
- Other duties as assigned

### **Qualifications**

- Must be familiar with a variety of the field's concepts, practices, and procedures.
- Familiarity with industry standards, including ASME, ASTM and ANSI
- Relies on extensive experience and judgment to plan and accomplish goals.
- A wide degree of creativity and latitude is expected.
- Broad knowledge of OSHA and EPA statutes.
- Must be able to read, write, speak and understand English.
- Solid Works experience.

- Must be able to climb into, onto, and out of tanks, climb ladders or scaffolding.
- Must be able to lift up to 50 pounds.

**Education & Experience**

- Bachelor's Degree in Engineering or similar required.
- Four (4) years' experience in a production environment preferred.
- Professional engineering status is preferred but not required.

**Work Environment**

Office and factory.

Some travel.

The above statements are intended to describe the general nature and level of work being performed. The statements should not be construed as an exhausted list of all responsibilities, duties, and skills required. There may be additional duties outside the normal responsibilities to be performed as needed.

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Signature

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Date