

## **Design Engineer**

### Position Summary

#### **Position Objective:**

The Design Engineer has the responsibility of performing the design functions which include the actual design layouts, design calculations, detailing when required, overseeing the testing of prototypes as well as writing of engineering reports.

- Product design work in the development of new products and the modification and adaptation of existing products. Selected candidate will be working on and assigned projects or a portion of a project in the field of new product development, product line extension, upgrading and other related duties.
- Candidate will be required to instruct and advise drafting and design personnel on selection of materials and related design specifications
- The position requires an active role during assembly and test of experimental units, prepares test directives and reports.
- Position requires coordinating with the Manufacturing Department on the feasibility of processing the designed products.

#### **Competencies:**

- Bachelor's Degree in Engineering (Mechanical)
- Certified Fluid Power Engineer a plus
- 4-10 years design engineering experience
- hydraulic design experience preferred; specifically with hydraulic pressure manifold design with demonstrated proficiency integrating multiple components such as pumps, sensors, valves (directional control, bypass, system relief, check, etc.), oil cooler, and filters.
- Experience with mobile hydraulics preferred
- Pneumatic design experience preferred; specifically applying solenoid valves, cylinders, speed controls and dampers Pneumatics
- Mechanical design to include design experience of heavy equipment
- 2 - 5 years experience with 3D modeling using SolidWorks preferred
- Working knowledge of manufacturing processes.
- Understanding of machinery safety requirements
- Experience with equipment risk assessments preferred
- Understanding of drawing standards
- Conceptual design capabilities
- Understanding of mechanical fatigue and stress analyses.
- Experienced performing FEA analysis, Algor preferred
- Excellent organizational and communication skills.