



<b>Job Title:</b>	Mechanical Engineer (Snr.)	<b>Job Category:</b>	Engineering
<b>Department/Group:</b>	Engineering Group	<b>Job Code/ Req#:</b>	ME SNR001
<b>Location:</b>	Knoxville, TN. USA	<b>Travel Required:</b>	Occasionally
<b>Level/Salary Range:</b>	Typical for position and experience	<b>Position Type:</b>	Full time
<b>Position Contact:</b>	Greg Hayzen <a href="mailto:Ghayzen@generalgraphene.com">Ghayzen@generalgraphene.com</a> Tel: 865 384 1078	<b>Date Posted:</b>	8/31/2020

**Job Description**

**Job Objective**

Reporting to the Director of Engineering, the Mechanical Engineer creates and modifies mechanical designs for equipment and related modules that support the company's strategic engineering projects.

**Job Summary**

Works on technical assignments and project engineering tasks. Provides for the detailed execution of the mechanical engineering element within the instruction/specifications. Supports the Project Leader in the execution of the project. Finds solutions to problems and investigates applicability. Carries out calculations in order to meet the standards and decides what materials are needed. Consults Engineers with regards to coordination of the work and the execution. Discusses deviations with the Project Leader/internal client. Contacts suppliers of components if so required and discusses specifications and applications. Identifies and the clarifies any lack of clarity with the engineering firm. Ensures the detailed execution is in accordance with the standards and statutory requirements. Provides information to the Purchasing Department regarding equipment, components and materials to be ordered.

**Job Activities**

Works out a detailed design for a given specifications, information and standards. Works independently and selects the best possible solution, in consultation if needed. Decides on the technical format and execution and the materials and components to be applied. Work within time schedule, budget, and set standards. Activities can be undertaken for more than one instruction simultaneously. Receives all data with regard to the project or sub-project to be executed. Verifies whether all data is present and ensures that any missing data is supplied.

Provides support in R&D and standardization issues. Searches for solutions for any problems and discusses any changes with the (internal) client.

### **Responsibilities**

- Design in compliance with technical specifications.
- Create diagrams, drawings, and bills of material.
- Ensure correct application of national and international standards for compliance with code, safety regulation, etc.
- Prioritize efficient engineering to ensure the effective implementation of designs.
- Provide production support to solve problems when needed
- Detailed execution of the design, meeting the specifications
- Feasibility of the alternatives offered
- Meeting laws and legislation and generally applicable standards
- Quality designs delivered on time
- Provide mentorship to junior engineers

### **Preferred Skills**

- Machine Design and Automation
- Mechanical engineering construction and mechanics
- 3D CAD systems – preferably SolidWorks
- Mechatronics, pneumatics, hydraulics
- Simulation Engineering
- Finite Element Analysis
- Manufacturing methods and processes
- Material properties, application, and processing options

### **Qualifications**

- Bachelor's in Mechanical Engineering
- 10+ Years of relevant experience in Machine Design and Automation