

## **Job Description for Mechanical Engineer**

The Mechanical Engineer reports directly to the Engineering Manager.

### **Responsibilities/Duties:**

(Responsibilities include, but are not limited to the following)

#### **Design and Development:**

- Conduct research into the feasibility, design, operation and performance of mechanisms, components and systems.
- Plan and manage projects, and prepare material, cost and timing estimates, reports and design specifications for machinery and systems.
- Design machines, components, tools, fixtures and equipment.
- Analyze dynamics and vibrations of mechanical systems and structures.
- Supervise and inspect the installation, modification and commissioning of mechanical systems.
- Develop maintenance standards, schedules and programs and provide guidance to industrial maintenance crews.
- Investigate mechanical failures or unexpected maintenance problems.
- Prepare contract documents and evaluate tenders for industrial construction or maintenance.
- Supervise technicians, technologists and other engineers and review and approve designs, calculations and cost estimates.
- Create and foster teamwork within each project.
- Support the quality and application of existing products driving improvements as required.

#### **Communication:**

- Plan and manage projects.
- Prepare material, cost and timing estimates.
- Ensure proper documentation of all work, products and relevant activities.
- Organize and document design reviews.
- Provide status reports and present to the Manager as required.
- Encourage open communication within team.
- Prepare proposals.
- Liaise with clients as required and document all activities.

## **Job Specification for Mechanical Engineer**

### **Experience:**

- A bachelor's degree in Mechanical engineering.
- A master's degree or doctorate in a related engineering discipline may be required.

- Licensing by a provincial or territorial association of professional engineers is required to approve engineering drawings and reports and to practice as a Professional Engineer (P.Eng.).
- Excellent technical knowledge of electro-mechanical systems.
- Hands on knowledge of product and process design.
- Experience with 2D and 3D CAD software (preferably AutoCAD and Inventor).
- Experienced with DFMA principles
- Good knowledge of manufacturing processes and limitations

## **Characteristics:**

- Excellent oral and written communication skills
- Excellent organizational, planning and scheduling skills
- Excellent interpersonal skills and ability to work as part of a team
- Able to work with minimal supervision
- Detail oriented
- Strong analytical skills
- Proactive thinker

If your background is a match and you are interested in pursuing this challenging opportunity, please forward your resume in confidence to [mycareer@dewengineering.com](mailto:mycareer@dewengineering.com)