

## **Mechanical Industrial Design Engineer**

### **Work Scope**

You will be required to meet with clients to determine their design requirements, plan and execute the design of mechanical devices, develop and test prototypes, and work closely with the manufacturing teams to ensure that design specifications are met.

### **Basic Responsibilities**

1. Meeting with clients and design teams to determine mechanical applications and requirements.
2. Conducting research to inform the design and engineering methods required for the mechanical systems.
3. Planning and executing mechanical designs using CAD, CAM, and 3D CAD programs.
4. Performing computer simulations and experiments to virtually test and refine the designs.
5. Overseeing the development and manufacturing of physical prototypes for testing.
6. Documenting the design process, iterations, and test analytics.
7. Managing project timelines, resources, and budgets.
8. Liaising with clients, designers, engineers, and manufacturers to ensure coherence.
9. Preparing technical reports, design specifications documents, and operational manuals.
10. Keeping abreast of the latest advancements in technology, design trends, and engineering best practices.

### **Required Skills / Abilities**

1. Knowledgeable in industrial design.
2. Able to perform simulation.
3. Strong in engineering mathematics.
4. Strong in Physics and Mechanical Fundamentals.
5. Strong in project management skills.
6. Good verbal and written communication skills.