

## **Job Description (JD) – Mechanical Design Engineer**

### **QUALIFICATION:**

Diploma/B.E/B.Tech/M.E/M.Tech in Mechanical Engineering with minimum 70% to have interest to design electromechanical devices (Electrical machines, Sensors, Actuators etc).

### **REQUIREMENTS:**

- Solid understanding of mechanical engineering fundamentals (statics, dynamics, strength of materials, fluid dynamics, heat transfer and manufacturing methods) with the ability to apply these fundamentals to solve highly complex mechanical design problems.
- Experience in using Pro/Engineer, Solid Works, or equivalent CAD package.
- Support new product development and product improvement projects as part of a multidisciplinary team which include design, analysis, and management of engineering work.
- Experience designing sheet metal, die cast, injection molded plastic, machined parts, bus bars and PCB board mechanical etc.
- FEA and/or CFD modelling experience (Ansys, Mechanica, Flotherm, Icepak, etc)
- Solid understanding of statistical tolerance analysis
- Excellent verbal and written communication skills
- Optimizes product design using engineering analysis. (such as stress analysis, fluid flow analysis, and thermal analysis)
- Prepare design layouts, detailed drawings, and specifications and coordinate prototype layouts
- Compiles and analyzes operational, test, and research data to establish and/or evaluate performance standards and limits for new or existing products.
- Prepares and presents reports and presentations as needed.
- Interacts and coordinates project activities with internal functions and external partners throughout design process.
- Performs all elements of the job in accordance with established procedures.