

**Position:** Mechanical Engineer

**Department:** Engineering

**Reports to:** Engineer Manager

**Salary/pay grade:** Depends on Experience

[ X ] 35 – 40 hrs/wk      [ ] 20 – 35 hrs/wk      [ ] less than 20 hrs/wk

## **Job summary**

Designs mechanical and electromechanical products and systems by developing and testing specifications and methods.

## **Responsibilities/daily tasks**

- Evaluates mechanical and electromechanical systems and products by designing and conducting research programs, applying principles of mechanics, thermodynamics, hydraulics, heat transfer, and materials.
- Confirms system and product capabilities by designing feasibility and testing methods, testing properties.
- Develops mechanical and electromechanical products by studying customer requirements; researching and testing manufacturing and assembly methods and materials; soliciting observations from operators.
- Develops manufacturing processes by designing and modifying equipment for fabricating, building, assembling, and installing components.
- Assures system and product quality by designing testing methods; testing finished- product and system capabilities; confirming fabrication, assembly, and installation processes.
- Prepares product reports by collecting, analyzing, and summarizing information and trends.
- Provides engineering information by answering questions and requests.
- Maintains product and company reputation by complying with government regulations.
- Keeps equipment operational by coordinating maintenance and repair services; following manufacturer's instructions and established procedures; requesting special services.
- Maintains system and product data base by writing computer programs and entering data.
- Completes projects by training and guiding technicians.
- Maintains professional and technical knowledge by attending educational workshops; reviewing professional publications; establishing personal networks; participating in professional societies.
- Contributes to team effort by accomplishing related results as needed.

## **Qualifications**

Requirements Analysis, Design Skills, Presenting Technical Information, Equipment Maintenance, Conceptual Skills, Quality Focus, General Consulting Skills, Control Engineering, Production Planning, Technical Zeal, Job Knowledge