

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