

Job Description

Position: Project Design Engineer

Department: Engineering

Purpose of Position

The primary role of this position is the design of new temperature sensing devices and modification of existing products together with the organization and overall management of assigned projects to ensure compliance with quality, delivery and cost targets. This position also performs sustaining engineering of mechanical and electro-mechanical parts.

Key Responsibilities

- Design new products and modification of existing products
- Estimate costs of production components, as well as the cost of tooling and other capital equipment required to create parts
- Prepare drawings and procedures based on specific customer requirements
- Interact with customer, as necessary, to ensure accuracy of design document submittal
- Perform and/or verify all necessary stress/environmental analyses
- Organize customer approved drawings and procedures into detailed instruction packages (work orders) for use by manufacturing
- Prepare fully detailed material lists of all parts required for fabrication
- Initiate material requisitions for controlled materials
- Track and update schedules, as necessary, throughout the course of job
- Provide engineering support to manufacturing, as required, for maintenance of existing and implementation of new design processes
- Prepare engineering change orders when required by design or specification change; oversee the implementation of changes and the sign-off process
- Perform sign-off assistance as independent reviewer for the drawings and procedures of other engineers; assist as reviewer in the sign-off process of other engineer's ECOs
- Provide engineering support to sales, as required, to obtain new contracts; assist sales with engineering for new applications
- Manage the job related drafting and drawing sign-off process and the transmittal of drawings and procedures to the customer
- Interact with Quality Assurance throughout all phases of engineering to ensure incorporation of all quality-related requirements
- Prepare purchase part specifications for materials, as required
- Give day-to-day work directions to Engineering Assistants and Technicians
- Perform measurements using various test and measurement equipment
- Report status of projects to team members
- Other duties as assigned

Desired Background and Skill Requirements

- Minimum of BS in Mechanical Engineering, MSME preferred
- Minimum 5 years of related experience
- Knowledge of manufacturing processes and operating systems with emphasis on electro-mechanical assembly technology
- Familiarity with Material Requirements Planning, Bill of Material structuring and process routings
- Project management skills; ability to define tasks in terms of deliverables and required inputs
- Demonstrated knowledge of AutoCAD
- Experience in a low volume/high mix manufacturing environment
- Good verbal and written communication skills
- Lives the “continuous improvement” philosophy; develops and adopts new ideas and concepts
- Ability to work effectively in a team environment
- Physical requirements may include lifting up to 50 pounds