

Position: Senior Product Development Engineer – Liquid and Gas Fueled Heater

Location: Sauk Rapids, MN

Division/Department: Engineering

Exemption Status: Exempt

Posting Date: November 28, 2016

Position Description:

Develop new products and maintain current ones by generating technical documentation for fabrication and sourcing of components as well as assembly of products, ensuring timely completion of projects, within budget guidelines.

Primary Responsibilities:

- Lead and manage NPD projects from concept to production.
 - Participate in concept generation sessions (brainstorming)
 - Prepare concept drawings and models applying DFM principles
 - Work with Purchasing to identify supplier and obtain quotes for component parts
 - Prepare costing reports for complete projects and assigned portions of larger projects
 - Request components for prototype preparation (fabricated and purchased)
 - Provide final fabrication documentation for component parts
 - Secure full technical documentation for purchased components
 - Generate BOMs for new products with full drawing and 3D model package
 - Work closely with our Heater Test Department to produce prototypes for review and testing
 - Develop test plans for prototypes: fit-up, BTU verification, conformance to the product requirements (per development request form), combustion optimization, compliance to applicable directives and regulations
 - Provide detailed information and documentation to Product Launch Support Manger for preparation of product documentation (BOMs, Spec Sheets, Instructions, and Manuals) to ensure timely project completion
- Manage continuous improvement projects for existing products
- Reverse-engineer legacy products and make improvements when warranted.
- Work closely with Production personnel in China to assure smooth, efficient operations in our assembly area
 - Resolve design problems with assembly of our products and fabrication of components
 - Implement design changes to improve manufacturability and/or reduce cost of our products
- Work closely with Purchasing to assure timely delivery of purchased components
 - Communicate and resolve component design issues with vendors
 - Provide vendors with component performance requirements and complete technical specification as applicable
 - Maintain complete, accurate and current documentation for purchased components
 - Evaluate new vendors identified by Purchasing to provide Pinnacle with high quality, cost-effective components
- Work with Customer Care Center personnel to resolve field problems with our products
 - Assist with troubleshooting and repairs both in-house and at customers' locations
 - Interface with Schaefer distributors and customers to gather information relating to product failures
 - Provide information and documentation as required
- Provide formal and regular feedback to ensure timely project completion
- Provide Sales department with information and documentation as required

Reporting Relationships

- Reports to VP Engineering
- Supports engineering, operations, marketing and sales

Qualifications, Skills & Attributes

- BS Mechanical Engineering (with major in Thermodynamic preferably) or related degree
- 10 years' experience in liquid and gas fueled heater design and certification (for North America and Europe), combustion chamber and fuel delivery systems configuration and optimization.
- Highly proficient in 3D modeling, 2D drafting and drawing preparation using SolidWorks CAD software
- Gated Product Development experience with ownership responsibility
- Familiar with Design for Manufacture (DFM) principles, Global Manufacturing constraints and multi-cultural working environment
- Working knowledge of ERP system
- Knowledge of electric motors preferred
- Highly organized and detail oriented
- Technical writing experience
- Customer oriented
- Excellent problem solving skills