



MECHANICAL DESIGN ENGINEER

DEPARTMENT:	Engineering	REPORTS TO:	Chief Engineer
DIVISION:	Cortland	FLSA STATUS:	Exempt
JOB CODE:	2221	EFFECTIVE DATE:	2/20/2023

JOB SUMMARY

Perform the engineering & design of integrated thermal systems for customer applications involving molten metal processing, heating designs and transferring metal in various metal treatment industries. Oversee and participate in projects from initiation through assembly in the customer plant.

QUALIFICATIONS

Education/Experience

Bachelor of Science in engineering required, B.S. in mechanical engineering preferred. Prior experience as a project engineer leading projects developing solutions to furnace control, hot metal industry is a plus; or equivalent combination of education and experience.

Knowledge/Skills/Abilities

Core People Skills. Ability to positively interact and work collaboratively with a diverse group of people at all levels of the organization. Genuine with high ethical standards and values and personal integrity and honesty. Progressive, flexible and team oriented.

Communications Skills. Ability to speak clearly and persuasively in positive or negative situations, listen, obtain clarification, and respond well to questions. Maintain a persuasive and credible presentation style. Ability to develop and lead effective formal presentations to both internal and external customers. Proficiency in writing clearly and concisely, editing work for spelling and grammar. Ability to vary writing style to meet business needs.

Computer/Application Skills. Proficient computer skills using a variety of software application systems, including; Microsoft Office products, Visio, and 3-D CAD system. Ability to learn Autodesk Inventor.

Core Business Skills. Ability to exercise sound judgment and discretion in the handling of proprietary and confidential information. Use of resources, analytical skills and process focus to effectively "figure it out." Ability to work under pressure and excel in a fast-paced, self-directed entrepreneurial environment. Must be hands-on and maintain high energy to drive continuous improvement.

Mechanical Engineering. Knowledge and hands on application of engineering science and technology including applying principles, techniques, procedures, and equipment to the design and production of various goods and services. Knowledge of raw materials, production processes, quality control, costs, and other techniques for maximizing the effective manufacture and distribution of goods. Knowledge of design techniques, tools, and principals involved in production of precision technical plans, blueprints, drawings, and models.

Professional Investment. Demonstrated commitment to own personal professional development and learning. Ability to learn about and apply technical products to various industrial manufacturing processes.



Travel. Ability to travel by land and air, both domestically and internationally up to 20%. Valid US Passport or ability to obtain.

ESSENTIAL FUNCTIONS/RESPONSIBILITIES

1. Accurately interpret client's technical specifications and produce a compliant technical proposal, offering more suitable alternatives where appropriate.
2. Coordinate activities with Sales Engineers to ensure proposal process meets customer expectations and are aligned with the Company's product portfolio, development, and sales goals.
3. Arrange and take a lead role in proposal review, proposal clarification, and project kick-off meetings.
4. Serve in a technical sales role with presentations to key customers and in business development opportunities.
5. Provide after sale support for any drawings, solid models and installations required.
6. Develop Standard Operating Procedures (SOPs) and work instructions as needed.
7. Perform project management when needed and appropriate.
8. Develop quality & EHS documentation/ensure compliance as necessary.
9. Provide technical expertise or support related to manufacturing.
10. Respond appropriately to inquiries, concerns and complaints by being professional, courteous and respectful at all times.
11. Work effectively within team environments both within your department and across the organization.
12. Promote positive Team Member and customer relations by supporting Pyrotek's commitment to a working environment of tolerance, acceptance and civility. Respond appropriately to inquiries, concerns and complaints by being professional, courteous and respectful at all times.
13. Maintain regular, consistent, reliable, punctual and predictable attendance, as required to achieve internal and external customer satisfaction.
14. Actively and positively participate in problem resolution, demonstrating constructive communication, timely response and effective resolution skills. Work effectively within team environments both within your department and across the organization.
15. Cooperate and comply fully with all Pyrotek policies and procedures. Actively support and follow the Pyrotek Safety Program.
16. Participate in company/department meetings, training activities, continuing education programs and other associated activities.
17. Consistently promote and communicate Pyrotek's core values through work performance and excellent customer service.
18. Perform other tasks as assigned.



PHYSICAL/SENSORY REQUIREMENTS

The following physical activities described here are representative of those required by a Team Member to perform the essential functions of this position. Reasonable accommodation, if feasible, will be made to enable individuals with disabilities to perform the functions of position.

Must be able to sit for long periods-of-time, bend and reach, use stairs, lift up to 25 pounds occasionally and communicate effectively in English by telephone, in person and in writing. Effectively use a personal computer, office equipment and telephone.

WORKING ENVIRONMENT

Generally work in an office environment. Will be required to go onto plant floor occasionally as needs/issues arise where Personal Protective Equipment (PPE) may be required. Travel may be required both domestic and international.

Team Member's Signature

Date

Manager's Signature

Date