



MECHANICAL ENGINEER

DIVISION:	Aluminum	JOB CODE:	2221
LOCATION:	Cortland	JOB FUNCTION:	Engineering
DEPARTMENT:	Engineering	FLSA STATUS:	Exempt
REPORTS TO:	Engineering Mgr.	EFFECTIVE DATE:	9/30/24

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, including within customers' environments.

QUALIFICATIONS

Education/Experience

Bachelor of Science in Engineering with concentration in Mechanical Engineering required.

Prior Project Engineering experience leading projects developing solutions to furnace control in the hot metals industry is strongly preferred.

Knowledge/Skills/Abilities

Mechanical Engineering Skills. Working knowledge and proficiency in application of engineering science and technology, including applying principles, techniques, procedures, and equipment to the design and production of various goods and services. Understanding of and experience with raw materials, production processes, quality control, costs, and other techniques for maximizing the effective manufacture and distribution of goods. Working knowledge and ability to utilize design techniques, tools, and principals involved in the production of precision technical plans, blueprints, drawings, and models.

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. Ability to apply a large measure of common sense to a variety of situations. Continuous improvement mindset and approach to work, and 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. Proficiency in writing clearly and concisely, editing work for spelling and grammar. Ability to vary writing style to meet business needs. Ability to demonstrate and maintain a persuasive and credible presentation style. Ability to develop and lead effective formal presentations to both internal and external customers.

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

Core Business Skills. Ability to exercise sound judgement and discretion in handling of proprietary and confidential information. Ability to work independently, without significant direction and to use resources effectively to "figure it out". Exceptional prioritization, time management, organizational and analytical skills. Must be hands-on and possess ability to work under pressure and excel in a fast-paced, self-directed entrepreneurial environment. Ability to learn about and apply technical products to various industrial manufacturing processes.

Professional Investment. Demonstrated commitment to own personal professional development and learning.

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. Effectively coordinate activities with Sales Engineers to ensure the proposal process meets customer expectations, and are aligned with the Company's product portfolio, development, and sales goals.
3. Appropriately arrange and take the lead in proposal review(s), proposal clarification(s), and project kick-off meetings.
4. Adeptly serve in a technical sales capacity by conducting presentations to key customers and communicating business development opportunities.
5. Provide post-sales support to customers for drawings, solid models, and installations.
6. Continuously provide technical expertise and/or support related to manufacturing.
7. Develop Standard Operating Procedures (SOPs) and work instructions, as needed.
8. Develop quality & EHS documentation, and take appropriate actions to ensure compliance.
9. Perform project management functions, as needed.
10. 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.
11. Maintain regular, consistent, reliable, punctual and predictable attendance, as required to achieve internal and external customer satisfaction.
12. 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.
13. Cooperate and comply fully with all Pyrotek policies and procedures. Actively support and follow the Pyrotek Safety Program.
14. Actively support compliance with all relevant ISO management system standards by establishing controls to ensure environmental requirements are addressed in the design and development process for the product or service, considering each life cycle state and the hierarchy of controls. Ensure outsourced processes' and providers' environmental aspects are controlled or influenced.
15. Participate in company/department meetings, training activities, continuing education programs and other associated activities.
16. Consistently promote and communicate Pyrotek's core values through work performance and excellent customer service.
17. 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 and stand 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

While performing the essential responsibilities of this position, Team Member generally will work in an office environment, with occasional work in a manufacturing environment with frequent exposure to loud noise, moving mechanical parts, and fumes or airborne particles. Periodic exposure to outdoor environment through open doors. PPE (Personal Protective Equipment) such as approved footwear, respirators, safety glasses/goggles, required.

Team Member’s Signature

Date