



POSITION TITLE:	4007 - Mechanical Engineer
DEPARTMENT:	40
POSITION NUMBER:	4007
REPORTS TO:	4012 – Plant Manager

GENERAL SUMMARY:

We are seeking a skilled Mechanical Engineer with a strong background in foundry operations to join our dynamic manufacturing team. The ideal candidate will leverage their technical expertise to enhance our manufacturing processes, work with EH&S of key projects to enhance safety and environmental controls, improve product quality and drive innovation in our foundry operations.

RESPONSIBILITIES:

- Design and develop mechanical systems and components for foundry processes, ensuring efficiency and adherence to quality standards.
- Collaborate with cross-functional teams, including production, quality assurance, and R&D, to optimize foundry operations.
- Conduct failure analysis and troubleshooting for existing foundry equipment and processes.
- Implement and oversee process improvements, including material selection, casting techniques, and mold design.
- Prepare and review technical documentation, including specifications, reports, and project plans.
- Ensure compliance with industry standards and regulations, including safety and environmental considerations.
- Conduct tests and simulations to validate designs and improve manufacturing processes.
- Provide technical support and training to foundry staff on equipment operation and maintenance.
- Key lead on design and implementation of structural and facility upgrades and equipment installations.

SKILLS:

- Adaptability
- Attention to Detail
- Communication
- Composure
- Creativity
- Critical Thinking
- Leadership
- Mathematical Computation
- Problem-solving
- Project Management
- Teamwork
- Technical Documentation

QUALIFICATIONS:

- Bachelor's degree in mechanical engineering or a related field (Master's Degree Preferred).
- Certification as a Professional Engineer (PE).
- Minimum of 5 years of experience in mechanical engineering, with a focus on foundry or manufacturing operations.
- Strong knowledge of casting processes (sand casting, investment casting, etc.) and foundry equipment.
- Proficient in CAD software (e.g., SolidWorks, AutoCAD) and engineering analysis tools.
- Excellent problem-solving skills and attention to detail.
- Strong communication and interpersonal skills to collaborate effectively with team members and stakeholders.
- Familiarity with lean manufacturing principles and continuous improvement methodologies is a plus.
- Experience with Quality Control Systems and methodologies (I.E. Six Sigma).

WORKING CONDITIONS:

- Foundry Environment
- Exposure to extreme temperatures
- Exposure to high noise levels
- Exposure to dirt, dust and fumes
- Must be able to sit and stand (including on a ladder) for long periods of time.
- Must be able to use small hand tools, including precision tools.
- Must be able to lift up to 50 lbs occasionally.

WHAT WE OFFER:

- Competitive salary and benefits package.
- Opportunities for professional development and career growth.
- A collaborative work environment with a historic company.
- The chance to make a positive impact on the future of Oil City Iron Works.

Oil City Iron Works, Inc. is an Equal Opportunity Employer

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