



Job Title: Project Engineer

Job Status: Office

Location: Mount Pleasant, Wisconsin

Job Summary:

Conveniently located in Mount Pleasant, Racine Railroad Products is a Wisconsin family-owned business, proud to provide innovative equipment and tools to the most prominent rail customers in the world. Our Maintenance-of-Way equipment is designed to ensure our customers receive the benefit of improved safety, performance, and reliability.

The Project Engineer will lead project teams composed of Design Engineers, Software & Controls Engineers, and Electrical Designers to assist in the design of railroad maintenance of way equipment. Directly responsible for the management of resources, schedule, budget, implementation, and completion of new product development projects from concept into production. In addition, this role will lead in the management of product life cycles.

Essential Duties:

30%	<ul style="list-style-type: none"> Perform engineering design evaluations and work to complete projects within budgets and scheduling restraints. Review customer design requirements to ensure product success, including travel to customers for on-site visits. Designs, implements, and communicates an operational plan to drive towards project completion.
10%	<ul style="list-style-type: none"> Manage the concept development process, evaluate suggestions for feasibility and alignment with design criteria.
40%	<ul style="list-style-type: none"> Provide supervision to engineers, designers, and technicians on a project basis. Provide technical support for the engineering process, collaborate with other engineering team members to ensure each discipline is aligned as the project progresses. Review engineering drawings, documentation, and models for accuracy and adherence to project plans, design goals, and accepted practices.
10%	<ul style="list-style-type: none"> Monitor progress and performance against the operational plan, taking action to resolve problems and minimize delays.
10%	<ul style="list-style-type: none"> Review production, service, and maintenance reports to further develop the product through the entire life cycle.

Skills & Qualifications:

- Ability to provide direction, guide collaboration and demonstrate leadership with project team members, including coordinating any vendor or outsourced design operations related to a given project.
- Ability to research new technologies for suitability and adaptability to mobile equipment environment.
- Ability to generate and review design work, including adherence to design criteria, customer specifications, industry guidelines, and regulatory requirements.
- Ability to perform analysis in mechanical, hydraulic, pneumatic, and electrical systems including motion analysis, Design Failure Mode and Effects Analysis (DFMEA), and HAZOP analysis.
- Ability to perform, interpret, and evaluate computer simulations for Finite Element Analysis (FEA) using SolidWorks simulation software.
- Ability to work independently and with teams.
- Training and experience with CAD Software, primarily SolidWorks and some AutoCAD.
- Familiarity with engineering processes such as Engineering Notices, Engineering Release Orders, Engineering Change Orders, Engineering Change Requests, etc.
- Familiarity with design and production of metal fabrication processes for weldments, machined components, castings, sheet metal, large assemblies and etc.

Preferred Qualifications:

- Previous rail industry or off-road equipment experience.
- Familiarity with electrically controlled hydraulic systems, pneumatic systems, and CAN bus communication systems.
- Bachelor's degree in engineering preferred but not required if supplemental training and work experience demonstrated.
- Familiarity with PDM software such as SolidWorks PDM Enterprise and SolidWorks Manage.
- Passionate about seeking improvement and driving change within our business and engineering processes.
- Driven to explore new technologies and how to adapt them to railroad industry.
- Ability to travel with hands on capability in shop and field environments.

Benefits Include:

Insurance coverage including medical, dental, vision, life insurance, as well as a health savings account (HSA)

Culture committed to work life balance with hybrid schedules and generous PTO

Company-wide bonus program

Assistance with continuing education

If this opportunity is a fit for you, please send your resume and starting salary requirements directly to careers@racinerailroad.com and we'd love to get the process started.

If you'd like to learn more about the Racine Railroad Products family, please visit our website at <https://www.racinerailroad.com> or on LinkedIn at <https://www.linkedin.com/company/racine-railroad-products/>.