

## Engineering: Project Engineer

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.

### Job Requirements:

- Training and experience with CAD Software, primarily SolidWorks and some AutoCAD.
- 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 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 generate and review design work, including adherence to design criteria, customer specifications, industry guidelines, and regulatory requirements.
- Ability to research new technologies for suitability and adaptability to mobile equipment environment.
- Ability to perform, interpret, and evaluate computer simulations for Finite Element Analysis (FEA) using SolidWorks simulation software.
- Ability to work independently and with teams.
- Familiarity with engineering processes such as Engineering Notices, Engineering Release Orders, Engineering Change Orders, Engineering Change Requests, and etc.
- Familiarity with design and production of metal fabrication processes for weldments, machined components, castings, sheet metal, large assemblies and etc.

### Required Skills and Background:

- Previous rail industry or off-road equipment a plus.
- 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.