

Engineering: Electrical Engineer

Responsibilities:

The Electrical Engineer will work with project teams composed of Design Engineers, Software & Controls Engineers, and Project Managers to assist in the design of railroad maintenance of way equipment.

Duties include research, selection, and analysis of electrical components, Design and documentation of electrical schematics, wiring interconnects, control boxes, HMIs, and electrical junction boxes.

Machine analysis to include load calcs, circuit analysis, fit for purpose testing.

Job Requirements:

- Plan, organize, and coordinate electrical engineering and multi-disciplined team/design projects while engaged in the planning, design, and construction phases of engineering projects.
- Prepare and modify electrical design drawings (e.g., schematics, wire harnesses, wiring interconnects, connectors, control boxes, junction boxes, electrical cabinets, HMIs, and component drawings).
- Conduct load analysis of circuits and machine systems.
- Ability to research new technologies for suitability and adaptability to mobile equipment environment.
- Ability to work independently and with teams.
- Training and experience with CAD Software (SolidWorks and AutoCAD).
- Properly interpret and apply American National Standards Institute (ANSI) and International Standards Organization (ISO), and customer design requirements for the preparation of electrical design/construction documents, specifications, and system descriptions related to assigned tasks.
- Familiarity with engineering processes (Engineering Notices, Engineering Release Orders, Engineering Change Orders, etc.).

Required Skills and Background:

- Previous rail industry 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.