

## Electrical Systems Support Engineer

Responsible for the integration and test of custom highly sophisticated and technologically advanced Industrial x-ray Inspection Systems and various electrical, imaging and x-ray components.

### **Job Description:**

- Work closely with the engineering and production teams to integrate and test electro-mechanical and/or material handling systems.
- Install, wire and configure electrical, imaging and x-ray components into new and existing systems
- Wire electrical panels according to drawings and schematics.
- Create, modify, and finalize detailed electrical designs, schematics, and drawings.
- Review engineering drawings and designs to ensure adherence to established specifications, internal guidelines, quality standards and national codes and standards.
- Generate, revise, and finalize BOMs
- Interact with a cross-disciplinary engineering team (mechanical, electrical, software, imaging) on system designs, to generate and edit system electrical design documents, and to help resolve customer problems and provide world class customer service.
- Work with Production, Design & Installation teams to revise drawings and generate final as built package.
- Test, troubleshoot and debug electrical, components and systems in-house and at customer locations.
- Ensure all work is completed in compliance with all applicable local, state, federal Electrical standards.
- Perform tasks in accordance and compliance with US and European standards, defined quality standards, all related Company design and safety standards.
- Potential travel to customer sites or other company locations worldwide (approximately 30%)

### **Essential Skills:**

- Bachelor's Degree in Electrical Engineering.
- Two (2) or more years of experience in integration and troubleshooting of industrial, automated machinery systems.
- Experience with AutoCAD for Electrical.
- Proactive, team player with established verbal and written communication skills and the ability to work to schedules under time constraints in a dynamic environment.

- Must be highly organized and self-motivated with a strong mechanical and electrical aptitude and problem-solving abilities
- Established understanding and experience working with high voltage power levels (>1KW)
- Familiarity with motor drives (Copley), PLC (Allen Bradley, Siemens) and PC based control system.
- Knowledge of Pneumatic Actuator Control and Relay Logic
- Knowledge of Machine Guarding Systems and Power Distribution
- Knowledge of CE, UL, or other applicable regulatory guidelines or standards
- Must be a US Citizen or US Permanent resident who is legally authorized to work in the US and able to successfully pass a background check and pre-employment drug test.

### **Non-Essential Skills:**

- Understanding of applicable local, State, federal & EU codes and design requirements
- Experience in tuning and Integration of DC Drives, VFD's, Servo Drives, PLC's and PC based control systems.
- Experience with Microsoft Office Suite of Tools

### **Physical & Mental Demands:**

- Regularly required to sit and use computer equipment for prolonged periods of time to create and revise designs, Bills of Materials, and related design documentation.
- Will be required to sit, stand, walk, bend and work within and around systems in an industrial environment.
- Need to repeatedly use hands to finger, handle, feel and operate hand tools, power tools, and related standard industrial production and office equipment.
- Could be required to lift, move, carry, and/or maneuver materials up to 50 pounds alone; heavier with assistance.
- May need to work or traverse upon ladders and/or elevated heights with proper safety gear.
- Specific vision abilities required include close vision, distance vision and the ability to adjust focus.
- Expected to effectively communicate in person, on phone, and via email and other electronic devices on a continual and repetitive basis.
- Domestic and international travel via air, rail, and car.
- Able to fulfill essential job function in a consistent state of alertness and safe manner.

*This job description is not all inclusive and is subject to change at any time.*