

## **Duties and Responsibilities**

- Create schematics using AutoCAD Electrical software
- Identify the specific cables, connectors, fuses, circuit breakers and/or other electrical devices for established project
- Work closely with vendors, defining appropriate hardware necessary for the project
- Create and document cabinet design layouts including drive, drive connections, power modules, CNC and PLC modules, and terminal wiring within each box.
- Create and maintain all BOM and change orders associated with all electrical parts
- Documents designs using the appropriate format (CAD drawings, Schematics, Computer Source Code) to MTB and/or customer standards as required by the project.
- May have responsibility for testing and validation of designs.
- Develop specifications for purchased equipment.
- Support the start-up of projects on-site.
- 5-10% travel is required for this position.
- Work with Engineering Management and Project Managers to meet customer delivery schedule(s). Manage time for multiple projects
- Involved with project from design to completion
- Attend status, customer and design review meetings

## **Qualifications**

- Must be a self-starter who can perform assigned tasks with minimal supervision.
- Must have good communication skills both written and verbal.
- Must have ability to develop state of the art designs.
- The ability to work well with others in a team environment is required.
- Ability to work to a schedule and budget is required.
- A basic understanding in the mathematics and calculations for the design of electrical systems is required.
- Must have the ability to design electrical systems for CNC and/or PLC control systems.
- Experience with Computer Engineering Tools for electrical system design is desired.
- Knowledge of fluid power and pneumatic systems desired

## **Experience**

- Working knowledge of FANUC, Siemens hardware platform required
- A general knowledge of machine tool types, their function and typical machining process is a plus.
- Knowledge of common US and International Electrical Codes are pluses.

## **Education**

- Bachelor's degree in Electrical or equivalent