

## **SENIOR ELECTRICAL DESIGNER JOB DESCRIPTION**

### **Description**

The role of the Senior Electrical Designer within the Automation Division will include control systems design integration for discrete manufacturing and the process control industry.

### **Position Requirements**

- 5-10 years direct work experience in designing custom PLC control panels using AutoCAD Electrical.
- Efficient in the use of MS Office software suite: Outlook, Excel, Word and Project
- Ability to complete assigned tasks and maintain schedule for multiple projects as appropriate to meet changing needs and requirements.
- Ability to evaluate and convey contractual scope of work and the impact of client issued bulletins and/or scheduling changes to the assigned project manager.
- Experience reading specifications, electrical schematics/wiring diagrams and P&ID drawings.
- Strong knowledge of the Ontario and Canadian Electrical Code.
- Knowledge of hazardous area electrical systems and design requirements.
- Flexible working hours with the ability to travel on occasion.
- Strong written and oral English communication skills. Any other spoken or written languages would be considered an asset.
- Strong customer service and interpersonal skills.
- Must be self-motivated, results oriented, and be flexible to work well under tight schedules in a fast paced team-oriented, collaborative environment.
- Experience designing pneumatic and hydraulic control systems would be considered an asset.
- Must have an appropriate college or graduate degree in Electrical/Electronic Engineering. Ontario P.Eng license holder a definite asset, but not a requirement.

### **Responsibilities**

- Design of single line diagrams, electrical schematics/wiring diagrams, terminal block and panel layouts, cable pull schedules etc. with minimal supervision.
- Perform calculations for overload and short circuit protection for systems up to 1200A at 600VAC.
- Assist in preparation of estimates, work packages, IO lists and specifications as required.
- Create complete bill of materials for panel designs and assists purchasing with order procurement for assigned projects.
- Check and back-check drawings produced by the electrical design team.
- Visit construction sites and customer plants to review electrical design requirements as needed.
- Effectively communicates the status of projects to management and actively pursue additional work through scope changes and change orders.
- Assists in communicating both technical and business related issues to clients and management.
- Assists in development and creation of system operation manuals and training material based on project deliverables.
- Provides coaching and mentoring to junior resources and shares experience and knowledge in a collaborative environment.
- Maintain awareness of new and emerging technologies and the potential application on client engagements.
- Ensure all documents are complete, current, and stored appropriately upon project completion.
- Keep track of lessons learned on projects and share the information with the engineering and sales teams.

