

POSITION DESCRIPTION

Location: Wausau WI, Loveland CO or Montreal QC

Position Title: Senior Engineer

Reports to: Engineering Manager

JOB SUMMARY

Design and implement control and protection systems for electrical generation facilities

REQUIREMENTS

- BSME or BSEE
- 10 years experience with digital/hydraulic governors, excitation, protection, automation and SCADA systems for hydroelectric power plants.
- Ability to create transfer functions for governor systems
- Ability to design and interpret electrical mechanical drawings
- Ability to design and troubleshoot hydraulic and pneumatic systems
- Ability to perform and review electrical and mechanical calculations for system sizing and component selection
- Ability to design, program and troubleshoot PLC and HMI control systems

DESIRABLE:

- Professional engineering registration or the ability to become registered
- Familiar with ASME, IEEE, IEC, NEC, and CSA standards applicable to the design of equipment and auxiliaries intended for Power Generating Stations

ESSENTIAL FUNCTIONS

- Interpret project technical specifications
- Assist with on site inspections and project “kick-off” meetings
- Produce conceptual designs and functional descriptions
- Work with designers to develop functional schematic and installation drawings
- PLC and operator interface programming and troubleshooting
- Perform demolition and installation engineering for retrofit control system projects
- Prepare O&M manual, factory acceptance test (FAT), installation, site acceptance test (SAT) and customer training documents
- Perform FAT, installation supervision, SAT, customer training and system commissioning
- Utilize L&S Electric ISO system to ensure quality products and services

OTHER REQUIREMENTS

- Strong conceptualization ability along with strong interpersonal, communication and organizational skills, including the ability to explain complex technical issues to decision-makers and project teams
- Very good oral and written communication skills
- Proficient use of personal computer, operating knowledge of Microsoft Word, Excel and Project
- Willingness to learn new skills and approaches to dealing with problems
- Strong electrical and mechanical aptitude
- Work effectively as an individual and in a team environment
- Be a “Self-starter”, effectively perform duties without guidance
- Positive attitude
- Periodically work extended hours to complete project specific requirements
- Ability to travel 30% throughout US and Canada, potentially in Australia and Latin America
- Able to wear personal protective equipment; hearing protection, hard hat, safety glasses, etc.
- Valid drivers license, able to be insured
- Valid passport or ability to obtain one
- Possess practical operating knowledge of Microsoft Word, Excel and Project
- Fluent in English language
- Support Engineering division as requested

WORKING CONDITIONS

- Occasional lifting of heavy objects
- Environmental conditions vary from facility to facility (i.e. heat, noise)
- Uneven or slippery walking surfaces
- Aerial work may sometimes be necessary