

Software Engineer

Location: Fort Collins, Colorado

We are seeking an experienced Software Engineer/Architect with demonstrated systems architecture and software development skills. This individual will be responsible for designing, developing and testing a distributed control system for utility power system applications. He or she will also contribute to power system modeling and simulation, product testing, and developing customer proposals.

Responsibilities:

- Drive the definition and development of robust distributed controls software for electric power utilities including C++ applications and platforms that integrate with RTU/PLC devices and SCADA systems.
- Programming RTU/PLC devices commonly used in power generation and distribution.
- Development of software control-system architectures, Object-Oriented design and development, and following software development best practices.
- Expertise with a wide variety of communication/control interfaces (IEC 104 or 61850, DNP3, RS232/485, MODBUS, OPC), including integration into SCADA systems and development of user interfaces.
- Assist sales team with technical specifications for customer proposals. Ability to actively participate in customer discussions and develop requirements specifications is a must.

Required Experience:

- BS degree or equivalent in software engineering with an emphasis on control systems development and experience with communication systems.
- Experience with distributed control architectures and real time controls.
- Demonstrated experience writing robust software that delivers high quality results.
- Experience with Microsoft Windows™ development, C++, OPC, SW configuration management (SCM) systems, and state machines.
- Demonstrated experience with leading the effective usage of software development technologies and best practices. This spans the entire product life-cycle from requirements, design, development, validation/test, and post release maintenance.
- Self directed, energetic and enthusiastic. Fast learner. Technically competent. Willingness to travel occasionally (2-5 times a year) to facilitate development and release of applications at field locations.

Desired Experience:

- Experience or background in electrical engineering, especially power generation and distribution involving renewable energy systems.
- Experience with control systems development in applications such as automation, motion control, engines, or power control.
- Technical leadership of globally distributed development teams/partners.
- Experience or background in development of simulation systems (such as MATLAB/Simulink or PSCAD) and hardware-in-the-loop simulation testing.
- Experience with SCADA systems and RTUs.

Compensation: Commensurate with experience