

Power System Engineer

Location: Fort Collins, Colorado

We are seeking an electrical engineer with power systems engineering expertise. Responsibilities will include network modeling, power system software design and development, and applications integration.

In addition to software development, applicant must be capable of developing requirement specifications and design documents for interfacing applications with EMS, SCADA, and IT systems widely used in the power industry. This position requires working closely with technical staff and managing internal and external resources for product development and solutions delivery.

Familiarity with state estimation, contingency analysis, automatic generation control, outage management, and operations training simulator tools a plus.

Responsibilities

- Develop requirements specifications and design documentation for integrating power management applications with EMS and SCADA systems
- Develop power system network models
- Review and recommend object modeling standards for power systems
- Algorithm development for power system modeling and management functions
- Software design, development and maintenance
- Engineering analysis to tune systems, investigate application failures, and improve system performance
- Conduct product evaluations
- Develop and lead internal power systems training classes

Required Experience:

- Ten or more years of work experience in power systems operations, analysis, or development.
- BS or MS degree in Electrical Engineering or related field. Significant experience with network operations may substitute for educational requirements.
- Basic understanding of subjects related to renewable energy, including wind integration, transmission operations, ancillary services, and power management.
- Strong interpersonal, written, analytical, and quantitative skills.
- Detail-oriented self-starter with strong organizational skills.
- Ability to travel and work long hours when needed.
- Proficiency in Word, Excel, Outlook, PowerPoint and other common business software.
- Energetic and enthusiastic. Fast learner. Technically competent.

Desired Experience

- C++ development experience
- Power system modeling and simulation experience
- Power systems research experience
- Experience with renewable energy integration
- Familiarity with communication protocols and standards
- Strong interest in environmental issues and/or renewable energy

Compensation: Commensurate with experience