



# Central Rivers Power

## Electrical Engineer and Project Manager

Type: Full-time

Status: Exempt

Location: Manchester, NH

### Position Overview

Central Rivers Power is seeking an Electrical Engineer with project management experience in the power generation industry. The Electrical Engineer/Project Manager will be responsible for oversight of major maintenance and upgrades for the electrical systems and power generation equipment for 45 hydro electrical plants throughout the U.S., as well as managing a team of Electrical and Controls Engineers supporting the fleet. This position is responsible for leading and implementing the management and maintenance of all power generation and electrical systems in line with RTO (ISO-NE, NYISO, PJM, CAISO, Duke), NERC, NFPA, and IEEE standards. The Electrical Engineer/Project Manager will manage complex projects, ensure work is completed on time, and coordinate all resources relevant to a project, including budget, staffing and materials.

### Regular Duties:

- Lead the electrical and controls team assisting the Operations department in the management and maintenance of electrical generation at hydro stations
- Develop and implement processes for the preventative maintenance of all electrical systems
- Serve as subject matter expert for electrical equipment, high voltage, controls and protection systems, transformers, and switch gear
- Manage hydroelectric plants to ISO, NERC, and IEEE standards
- Interface with interconnection companies to ensure equipment standards are met and maintained as per requirements
- Perform Arc Flash study reviews and analysis, determine required follow up actions, and complete reporting and equipment labelling for Central Rivers hydroelectric facilities
- Identify, evaluate, and recommend technical upgrades to equipment

### Infrequent Duties:

- Develop and manage projects, providing justification and cost analysis for generator rewinds, electrical controls, and protection relays upgrades, etc.
- Work with vendors and third-party personnel for successful completion of projects and work scopes
- Mentor and work with station electricians
- Perform site work when required for repairs and/or emergencies



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## **Skills and Qualifications:**

- Thorough understanding of electrical engineering concepts such as HV/LV, power generation, power factor, Arc Flash studies, generator theory, generator rewind, load and generation modeling, etc.
- Thorough knowledge of operational power generation system protection relays, Supervisory Control and Data Acquisition (SCADA) systems
- Basic understanding of communication systems and protocols, as well as PLC programs such as GE-Cimplicity
- Familiarity with electrical distribution system control center operations and the utilization of operational technologies within this environment; strong analytical skills
- Able to clearly communicate technical concepts to both technical and non-technical audiences
- Demonstrated ability to interface effectively and collaborate with third party suppliers/vendors
- Knowledge of test and production methods for electronics/power system components

## **Required Experience:**

- Bachelor of Science in Electrical Engineering or equivalent field
- 4+ years of related experience (power generation preferred)
- Active Professional Engineer license
- Experience in performing Arc Flash analyses and studies
- Experience generating and interpreting technical documentation and reports
- Demonstrated ability to lead and manage a technical team