

## **Substation Physical Electrical Engineer**

### **Company**

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Substation Engineering Company (SECo) is a full-service Engineering and Design firm providing a full range of cost-effective services for utility high voltage transmission and substation projects. Our corporate culture is rooted in our emphasis on process and safety. We are paving the road to success by providing the necessary tools to do good work, find enjoyment within a good team, and get home safely.

SECo is strengthened by partnerships with Tier 1 Testing & Commissioning and Tier 1 Utility Design, Inc. This dynamic equates to effortless coordination and cohesiveness between our clients, vendors, engineering, construction, and the field. Our experienced team connects testing and engineering and allows problem solving and corrective actions to occur before they become adverse client challenges.

### **Job Description**

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#### **Main Duties**

Mid to senior-level electrical engineering position focusing on the performance of both routine and complex activities and tasks related to the design of high voltage substations (up to 765kv).

Typical duties include (but are not limited to):

- Provides estimating, engineering, and design analysis for new and retrofit switchyard and substation projects up to 765kV.
- Designs and modifies physical design, specifications and layouts of major equipment and structures required for high voltage switchyards and substations.
- Prepares drawings for Site Plans, Plan and Elevation Views, Grounding, Conduit, Lighting and control building arrangements and details, AC Station Service, DC Systems and Bills of Material.
- Performs calculations such as grounding design, voltage drop, circuit ampacities, lightning protection analysis, bus calculations, transformer and bus sizing calculations, and AC and DC auxiliary system sizing calculations.
- Monitors budget and schedule for assigned tasks.
- Works in a team environment, coordinating requirements with other engineering and design disciplines.
- Provides technical direction to subordinate team members.
- Holds responsibility for the quality assurance of the documents to the applicable company and client standards.

#### **Desired Education, Experience and Training**

- BSEE with 5+ years of relevant experience in substation engineering with strong knowledge of applicable theories, practices and accepted procedures.
- Professional Engineering License or ability to sit for the exam within 6 months preferred.

- Ability to quickly develop broader knowledge through performing structured functional assignments, such as collecting and analyzing data related to specific tasks.
- Computer proficiency required as well as strong analytical and problem-solving skills. Experience with AutoCAD and MicroStation preferred.
- Accuracy and attention to detail, as well as the ability to meet deadlines and complete assignments.
- Basic written and verbal communication skills in English.
- Commitment to customer service and ability to work in a team-oriented environment.

### **Full Benefit package**

- Medical/Dental/Vision
- Paid Holidays
- PTO (Paid Time Off)
- Group Life Insurance/LTD/AD&D
- 401K
- Voluntary Benefit Plans
- Paid Parental Leave

### **Position Classification/Compensation**

- Exempt
- Competitive pay structure