Engineer III (Electrical – Protection & Control)

Company

Substation Engineering Company (SECo) is a full-service engineering and design firm delivering high-quality solutions to electric utilities nationwide. Our expertise spans substation, switchyard, transmission, and distribution projects, enhanced by advanced laser scanning and 3D modeling capabilities. We integrate strong engineering fundamentals with efficient, forward-thinking processes to deliver safe, reliable, and constructible solutions for critical infrastructure.

At SECo, our culture revolves around collaboration, accountability,and continuous improvement, where individuals are empowered to take ownership and make an impact with our ever-evolving power utility clients.

Job Description

Main Duties

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 (15kV to 765kV).

Typical duties include (but are not limited to):

- Estimates, engineers and designs analysis for new and retrofit switchyard and substation projects up to 765kV.
- Designs and modifies relaying one-line diagrams, three-line diagrams, protection and control schematics, relay panels, DC and AC auxiliary systems, and SCADA systems.
- Performs short-circuit grounding and lightning protection analysis.
- Performs calculations such as short circuit, voltage drop, circuit ampacities, etc.
- Prepares material specifications.
- 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 or MSEE.
- 10+ years of progressively responsible experience in protection and control engineering with a thorough knowledge of applicable theories, practices and accepted procedures.
- Professional Engineering license required.
- Ability to quickly develop broader knowledge through performing structured functional assignments, such as collecting and analyzing data related to specific tasks.
- Independently works through individual projects and/or takes the lead role in broader projects.
- Computer proficiency as well as strong analytical and problem-solving skills.
- Accuracy and attention to detail as well as ability to meet deadlines and complete assignments.

- Strong written and verbal communication skills in English.
- Commitment to customer service and ability to work in a team-oriented environment.

Compensation & Benefits

The anticipated base salary for this position is $135,000-175,000, depending on qualifications and relevant experience. Candidates with exceptional, directly relevant expertise may be considered outside the anticipated range, subject to the scope of the role, internal equity, and compensation approval.

We offer a comprehensive benefits package, including:

- Medical/Dental/Vision Insurance
- Flexible Spending Account (FSA)
- Paid Holidays
- Generous PTO (Paid Time Off)
- Group Life Insurance/LTD/AD&D
- Voluntary Benefit Plans
- Employee Assistance Program (EAP)
- 401(k) Match
- Paid Parental Bonding Leave
- Gym Membership Reimbursement
- FE/PE Support
- Collaborative, Fun and Flexible workplace

Position Classification

- Exempt