

Substation Design Engineer

About the Company

At ESC Engineering we are best known for delivering creative, relevant yet impactful solutions to utilities, industrial entities and governmental concerns ranging from high voltage power applications for electric utilities to controls and automation solutions for manufacturing, water/wastewater and oil and gas to name a few. What we enjoy most is also being known for being there year in and year out for our clients, with whom we have an 85% repeat business rate and many long-term partnerships, and for our team for whom we strive to provide long term growth opportunities. We are 100% employee-owned and that culture is a major factor in the long term relationships we build with our clients and with each other. If this sounds like the kind of team you'd like to be part of apply today and let's work together for a bright future.

Position

Substation Design Engineer

Location

Fort Collins, CO

Responsibilities

- Capable of collaborating on complex substation projects with a multidiscipline team from full scope estimating and proposals, through detailed design and equipment procurement, to project construction bidding, to commissioning and construction support for energization.
- Capable of reviewing and producing physical design drawings, including General Arrangement, Elevations and equipment connection Details, Grounding Plan and Details, Conduit Plan and Details, Control Building Layout and Details, Foundation Plan and Details, and developing material lists.
- Capable of performing studies and calculations to properly design substations, including grounding calculations, lightning protection calculations, battery bank sizing calculations, conduit fill calculations, and substation sizing calculations.
- Capable of reviewing and producing design drawings, including one-line diagrams, AC/DC schematics, wiring diagrams, and control panel elevations is preferred.
- Ability to perform AC & DC substation studies.
- Responsible for quality control reviews of projects from other teams on an as needed basis.
- Works independently and may direct efforts of less- experienced EITs and/or Designers.
- Periodic site visits and walkthroughs, estimating, and attending scoping meetings.
- Must be able to complete assignments within budget and schedule with high degree of accuracy.
- Other duties as assigned

Qualifications

- Bachelor's degree in Electrical Engineering. ABET accredited program or equivalent required.
- 4+ years of substation engineering experience.
- Licensed Professional Engineer by examination is preferred (must have passed both the EIT/FE and PE tests). If not, must be preparing to take the PE exam in the short term.
- Prior experience with substation walkthroughs and commissioning.
- Ability to perform required tasks with minimal supervision.
- Knowledge of substation electrical physical (apparatus) equipment.

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- Personality to work with other engineering and operational personnel at small-to-medium rural cooperatives and small-to-medium municipalities.
- Problem-solving and client service orientation.
- Demonstrated ability to work with highly technical staff and manage multiple tasks and objectives.
- Motivated and enthusiastic; good people skills and temperament; drive and ambition to set and reach challenging goals.
- Self-starter with excellent communication skills, both verbal and written to communicate effectively with internal team members and external clients.
- Ability to maintain and develop business with both existing and new/identified clients.
- People-oriented team player.
- Confident handling of the appropriate software for design purposes.
- Ability and willingness to travel as needed within the continental U.S.
- Legally authorized to work permanently in the U.S. without the need for sponsorship (proper identification required).

Desired Qualifications

- Proficient with substation protection and control design and industry standards.
- Knowledge of basic relay and device settings.
- Knowledge of National Electrical Code (NEC).
- Either currently or as experience in the role grows, actively engages and executes business development initiatives in the Substation market.

Compensation/Benefits

ESC Engineering offers a competitive compensation package including: medical, dental and vision insurance; 401k and profit sharing retirement plan contributions; life insurance; Flexible Spending Accounts (FSA) or Health Savings Account (HSA); paid vacation and holidays; and as an employee-owned company stock ownership is made available to all team members with attractive return.

Apply

Send resume, cover letter and any other pertinent information to jobs@thinkesc.com.

ESC Engineering is an Equal Opportunity Employer