

Job ID: **RK112310A**
Job Title: Electrical Substation Project Engineer
Degree Requirements: Bachelors Degree Electrical Engineering
Years of Experience: 5 - 7
Type of Position: Direct Hire
Location: Chicagoland area
Salary Range: \$75K – \$105K
Travel Required: <25% including some international

IMMEDIATE NEED for an Electrical Substation Project Engineer who has a minimum of 5 years work experience in industrial or utility High Voltage (HV) / Extra High Voltage (EHV) substation design OR Master's Degree in Electrical Engineering (power) with a minimum of 3 years engineering experience in industrial or utility High Voltage (HV) or Extra High Voltage (EHV) substation design and a bachelor's degree in Electrical Engineering from an ABET accredited college or university. The Chicagoland area is preferred but living in central Mississippi, east central NY, or the St. Louis, MO may be considered. Relocation assistance is budgeted for this position.

The **MUST HAVE** items for this position are:

- Bachelor's degree in Electrical Engineering + a minimum of 5 years work experience or Master's degree in Electrical Engineering + 3 years work experience
- Professional Engineer (PE) license
- Experience in High Voltage (HV) / Extra High Voltage (EHV) substation design
- Working knowledge of battery sizing & Direct Current (DC) component selection
- Transmission & Distribution (T&D) substation engineering for utilities & renewable energy power plants projects experience
- Experience as an Electrical Project Engineer designing substation automation, SCADA, as well as control & relay protection
- Knowledge & expertise using IEEE & ANSI standards
- Knowledge & expertise using NEC & NESC Codes
- Experience in commissioning & Field Testing
- Verifiable ability in troubleshooting electrical & mechanical problems
- Ability to perform in a Team Environment

PLUSSES in this position are:

- Prior experience using Expertise with AutoCAD or Microstation
- Prior management experience for leading teams on external customer projects
- Prior experience in utility, transmission distribution, or utility consulting

The **RESPONSIBILITIES** of this position include but are not limited to:

- All aspects of High Voltage (HV) / Extra High Voltage (EHV) substation design
- Lead & coordinate all technical aspects of AC power substation projects
- Single line drawings & schematics, plan & elevation drawings, general substation arrangement & layout, relay protection & control requirements, layouts for high voltage bus, cable, high voltage equipment, conduit, cable, and wiring, grounding, & control buildings
- Write high voltage equipment specifications & Bill of Material (BOM)
- Issue material purchase request forms
- Evaluate vendor quotation for equipment (high voltage circuit breakers, switchgear, disconnects, high voltage power transformers, high voltage cable, protection & control systems
- Be the single point of contact for technical issues for clients & project managers
- Lead efforts of internal teams coordinating sourcing & project teams on technical matters to meet project specifications, cost control & schedule objectives
- Work closely with external & internal customers (Principal Engineers, Protection & Control Engineers, Electrical Designers, Physical Designers, Draftsmen, Project Managers)
- Develop proposals including technical specifications, man hours, materials

- Define processes, procedures, perform RCA's (Root Cause Analysis), perform corrective actions, and validate process control
- Support quality initiatives including aspects of ISO9002

KEY WORDS: Utility Engineer, Substation Engineer, Power engineer, Design engineer, Principle engineer, 138KV, 345KV, 500KV, Wind Farm, Wind Plant, solar plant, interconnection substation, switch yard transmission substation, distribution substation, switching station, feeder, collector substation, Electrical Grid, Three-phase, Lightning shielding, Ground grid, ring bus, NESC, 3-phase, three phase, MOD, Bus and Fittings, high voltage testing, renewable power, power factor, electrical fault, extra high voltage, surge arrestors, ring bus, double bus, disconnect switch, circuit switcher, Chicago, Chicagoland, Jackson, MS, St. Louis, MO, east central, NY, AutoCAD, Microstation, SCADA, relay protection, IEEE, ANSI, NEC, PE, Professional Engineer, battery sizing, Direct Current, DC system component, power transformer, circuit breaker, circuit protection, control cable, power cable, bus, fittings, insulator, ground grid design, lightning protection, Transmission & Distribution, T&D, substation engineering, utilities, renewable energy, power plants, RCA, Root Cause Analysis, corrective actions, process control, ISO9002,

If you meet these requirements and wish to be considered for this position, send your résumé to us using Word 97 -2003 at Resumes@PinnaclePlacementGroup.com mentioning the **Job ID** and the **Job Title** in the subject line of your email. **In your email please provide us a short narrative detailing your experience and expertise as it applies to this position.**