



Columbia Power & Water Systems

Job Description

Job Title: Power System Engineer

Effective Date:

Department: Power Engineering

Reports To: Vice President of Power Operations

Classification: Exempt

Job Purpose: To plan, design, and specify distribution lines and services for Columbia Power System facilities.

Duties/Responsibilities:

- Provide planning and engineering functions to support the Vice President of Power Operations
- Direct, coordinate, and execute the development of computer engineering studies, such as system protection, short circuit, load flow, arc flash, voltage drop, power factor correction, and power quality
- Operate SCADA, Outage Management, and other computer systems
- Analyze distribution system for proper loading and coordination of protective devices
- Study power system for load growth
- Oversee and manage TVA Energy Conservation and renewable energy programs
- Serve as a technical expert on a daily basis to other employees within CPWS
- Perform computer analysis by entering information in databases
- Design and layout of power distribution lines
- Prepare cost estimates for new and existing power services
- Work new power service requests
- Prepare detailed construction specifications for new and existing power services
- Operate field engineering equipment efficiently
- Subject to stand-by, after-hours, and/or emergency call-out
- Other work as assigned

Required Skills/Abilities:

- Acknowledge and adhere to all CPWS policies

- Regular attendance at work
- Perform duties safely without endangering self, others, and the public
- Ability to read and understand instructions and job-related material (blueprints, drawings, orders, safety data sheets, distribution maps, manuals, etc.
- Ability to read and write
- Ability to use mathematic skills with exponents, linear and quadratic equations, and analytical geometry
- Ability to follow instructions
- Ability to interact with customers, consultants, contractors, and the general public
- Ability to use and operate personal computer and electronic devices
- Ability to stake for new and existing power services
- Ability to accept the responsibility for job completion
- Ability to work inside and outside and be exposed to noisy places, fumes, chemicals, toxic substances, and machinery
- Ability to be exposed to weather conditions that are cold, hot, rainy, and windy

Physical Requirements:

- Ability to sit at a desk or table for up to 8 hours per day
- Ability to lift and/or carry objects weighing 0 – 25 pounds for 6 hours a day
- Ability to walk
- Ability to stand for 8 hours a day
- Ability to stoop, kneel, and crouch for long periods of time
- Ability to talk, see, and hear

Education, Experience, and Qualifications:

- Bachelor of Science degree in Electrical Engineering required
- State of Tennessee Professional Engineer License required or within 24-months of hire
- Valid State of Tennessee Driver's License required
- Minimum 5 years of experience in utility engineering or similar field preferred

Residency Requirements:

- Must reside within a CPWS service territory or Maury County due to the position being subject to stand-by, after-hours, and/or emergency call-out

This is not necessarily an exhaustive list of all responsibilities, skills, duties, requirements, efforts, or working conditions associated with the job. While this is intended to be an accurate reflection of the current job, management reserves the right to revise the job or to require that additional and/or different tasks be performed when circumstances change (i.e., emergencies, changes in personnel,

workload, rush jobs, or technological developments). This job description does not constitute a written or implied contract of employment.