CPWS
Columbia Power & Water Systems

POWER SYSTEM ENGINEER

Columbia Power & Water Systems (CPWS) is a public utility proudly serving the citizens of Columbia and Maury County Tennessee since 1939. CPWS is recruiting a **Power System Engineer**. The Power System Engineer is responsible for designing, maintaining, and optimizing power generation, transmission, and distribution to deliver safe and reliable electricity to serve CPWS customers.

This is a safety-sensitive position subject to standby, afterhours, and/or emergency call out. Power System Engineers must reside within a CPWS service territory or Maury County.

The primary duties & responsibilities of this position include:

- *Analyze Distribution System:* for proper loading and coordination; study system for load growth; Run system distribution computer model program(s).
- *Design & Engineering:* Design and layout of distribution lines; assist engineering and technical services as needed.
- *Regulatory & Compliance:* Ensure installations and operations align with NERC, NEC, NESC, and other federal, state, and local safety standards. Assist in keeping The Green Book in compliance with state and local codes.
- *Operations & Maintenance:* Monitor equipment performance, troubleshoot system or plant electrical faults, and manage preventive maintenance programs. Test and set up substation relays and protective equipment. Work with customers on voltage and other electrical complaints.
- *SCADA & Industrial Controls:* Program, configure, and maintain Human Machine Interface (HMI), Programmable Logic Controllers (PLCs), and Supervisory Control and Data Acquisition (SCADA) systems
- *Project Management:* Oversee projects from initial feasibility studies through final construction and inspection. May manage a portion of the capital improvement projects.
- Provides technical engineering assistance to other departments in budgeting capital projects and O&M activities.
- Perform technical research, field analysis, and inspection.

Key Physical Requirements:

Ability to occasionally lift 0 – 50 pounds. Sit, walk, or stand for up to 4 hours a day and to use eyes, hands, and fingers to operate a computer keyboard quickly and accurately. Ability to talk, see, hear, reach, handle, and feel. Ability to stoop, kneel, and crouch. • Ability to work with and in close proximity to electrical equipment including but not limited to meters, transformers, etc., low and high electrical voltages, electrical and magnetic fields, and potential exposure to electrical shock. Ability to easily walk across undeveloped areas that may be hilly, overgrown, and rocky. *Environmental Conditions:* Ability to work both inside and outside. Inside: Protection from weather

conditions but not necessarily from temperature changes. Outside: Exposed to noisy places and machinery. Exposed to weather that is cold, hot, rainy, and windy.

Education, Experience, and Qualifications:

- Bachelor's degree in electrical engineering (BSEE) or a related ABET-accredited engineering program, required
- Engineer-in-Training (EIT) certificate preferred; Ability and desire to pursue and obtain licensure as a Professional Engineer (PE) required.
- 4 years of experience in electrical engineering or related field required.
- Maintain a valid Tennessee driver's license; driving record must meet the requirements to be covered by CPWS liability insurance.
- Ability to learn and use organization software, NISC, or similar preferred.
- Familiarity with NISC, Arcmap, and Milsoft or similar is strongly preferred

Compensation Package:
CPWS offers competitive compensation and benefits package that includes: health, dental, long-term disability and life insurance and a 401(k) contribution.

To apply, please visit our website: cpws.com/employment. This is not 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 ad does not constitute a written or implied contract of employment.

All offers of employment are contingent upon the successful completion of a comprehensive background check and drug screen.