

**Poudre Valley Rural Electric Association, Inc.**  
**Job Description**

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<b>POSITION:</b>	Senior Power System Engineer
<b>DEPARTMENT:</b>	Engineering
<b>REPORTS TO:</b>	Engineering Supervisor
<b>CLASSIFICATION:</b>	Full-time (Salary, Exempt)

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**POSITION SUMMARY**

This position serves a vital role within the Engineering team, ensuring the development, safety, and reliability of the Association's distribution power system. This position is responsible for leading the planning, design, and analysis that enhances system performance and meets members' needs efficiently. The position leads long- and short-term system planning, conducts system impact studies, and manages key projects including substations, distribution automation, distributed energy projects and other critical infrastructure.

**ESSENTIAL JOB FUNCTIONS**

*Assigned with or without reasonable accommodation.*

**System Planning & Design Leadership**

- Evaluate the adequacy of the Association's facilities to serve new and existing members based on planning studies and sound engineering practices.
- Lead and project manage substations and other major infrastructure projects, including creating RFPs, selecting consultants, and reviewing/approving designs and deliverables.
- Lead and direct staff and consultants in producing system long-range plans and construction work plans.
- Lead and direct staff and consultants in conducting system fault, arc flash, and coordination studies.

**System Modeling & Analysis**

- Develop and maintain system models, databases, and load forecasts to support system planning and operational needs.
- Perform system modeling analysis, including voltage studies, motor starting, fault analysis, and coordination using multiple engineering tools and software.
- Maintain proficiency with system automation and controls software packages and serve as the subject matter expert for support and recommendations.

**System Operations Technical Support**

- Provides extensive technical expertise to operations on substations, distribution systems, and filed technical support.
- Assist system operations with maintenance, reliability, sectionalizing/coordination, switching, voltage studies, and power quality.

**Distribution Design & Protection**

- Lead system coordination efforts, ensuring proper protection and coordination of system components to enhance system reliability and minimize downtime.
- Collaborate with the distribution design team on system design, system protection, load inquiries, ensuring design conformance with the latest standards.

**Automation and Control Systems**

- Lead the design of the Association's distribution system automation, including SCADA, RTUs, and other control systems, to meet goals related to automation, control, and reporting.
- Coordinate and support the Operations and Technology departments to align functional requirements for system automation and controls.

**On-Call Supervision**

- Provide on-call supervisory services as required, ensuring efficient problem-solving and decision-making during system-related after-hour emergencies.



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**STANDARDS OF EXCELLENCE**

*These duties reflect the cooperative's mission and purpose, and they are required of all employees:*

- Work according to the safety rules and company policies as adopted by PVREA and is responsible for own safety and reports all accidents in accordance with Association policies.
- Adhere to the cybersecurity policies, procedures, and practices as adopted by PVREA and is responsible for participating in cybersecurity training and awareness exercises.
- Exhibits integrity and demonstrates ethical behavior in everyday business conduct.
- Support the strategic goals of the organization in accordance with the Association's Strategic Plan.
- Interact with all departments of the Association as well as with members, the general public, other utility personnel, governmental agencies, and equipment vendors in a kind, courteous and professional manner.
- Collaborate effectively and successfully with fellow employees to achieve department and company-wide goals and build a team-focused environment.
- Assist in the emergency restoration of facilities during storms or general outages.
- Regular and predictable attendance are essential functions of the position.
- Performs other duties within capabilities as directed by supervisors.

**JOB QUALIFICATIONS**

Education and/or formal training needed: Bachelor of Science in Electrical Engineering from an ABET accredited curriculum is required, emphasis in Power Systems preferred; a PE (Professional Engineer) license is required with the ability to acquire a Colorado PE through reciprocity.

Experience needed: Requires a minimum of seven (7) years of electric utility engineering planning and/or design experience typically consisting of distribution planning, transmission planning, distribution design, substation design, and/or system protection and controls. The Senior Power System Engineer level is for professionals with demonstrated experience in independently managing complex projects, solving technical challenges, and mentoring lower-level engineering staff.

Knowledge, skill and abilities needed: Must have knowledge of electric systems and the operation; must be familiar with SCADA and communications systems, system design and analysis systems, control systems and computers; must be versed in National Electrical Safety Code (NESC) and the National Electric Code (NEC). An understanding about creating, issuing, and managing engineering proposals. Must be knowledgeable in rules, regulations, and policies of the Association.

Drug/Alcohol: A drug/alcohol test is administered to all job offer recipients, as well as a background check.

Driving: Must possess a valid Colorado Driver's License and operate a company non-DOT vehicle.

Mental Demands: This employee must be able to work well with the public, Association members, and other Association employees. This employee needs to be able to remember what was done and schedule and prioritize future work, stay alert even when the work is repetitious, and be detail oriented. Must be able to learn new procedures and equipment and demonstrate flexibility in all areas. The job may occasionally require ingenuity, problem solving, analytic ability, auditory discrimination, writing ability and imagination. This job can be stressful at times; however, composure must be maintained at all times with members and co-workers.

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**Physical Demands:** Must be capable of performing the Essential Job Functions of the position with or without reasonable accommodation.

- Approximately 20% of the day walking, 10% of the day in a vehicle, 10% of the day testing at various sites within the system and 60% of the day sitting at a desk (percentages will vary depending on the work to be accomplished).
- Hills must be climbed, streams crossed (with or without a bridge), and fences gone over or under. These obstacles require climbing, balancing, stooping, kneeling, crouching, crawling and reaching.
- Electrical testing requires physical dexterity and mental awareness and deductive skills.
- May be required to move equipment that may weigh as much as 50 pounds.

**MATERIALS AND EQUIPMENT USED**

General office equipment, including but not limited to, personal/networked computers, printers, two-way radios, all manner of small hand tools, electrical and electronic test equipment and various drawing and system planning and analysis software.

**WORKING CONDITIONS**

The work environment will vary from general office conditions to outside job site conditions. He/she must be able to tolerate severe weather conditions and noise levels in the 50-90 decibel range.

**COMPENSATION**

The starting annual salary range for this position is \$132,000 – \$147,000 (DOQ)

*Actual compensation offered to the candidate may vary outside of the posted hiring rate based upon work experience, education, and/or skill level.*

**BENEFITS**

- Medical, prescription and dental insurance with 100% employer paid premiums
- Health Savings Account
- Defined benefit pension plan
- 401(k) plan
- Life insurance
- Paid holidays, vacation, and sick leave
- Wellness programs
- Tuition reimbursement
- Employee assistance program

**NOTE:** This job description is not intended to be an exhaustive list of all duties, responsibilities, or qualifications associated with the job.