

GRICUA JOB DESCRIPTION



Distribution Systems Engineer

Department: Operations

Reports to: Operations Supervisor

Eligible for Overtime: No

Work Schedule: Approved schedule – 7:00am thru 4:30pm full schedule days, 7:30 thru 4:00pm short day & every other Friday off according to the approved GRICUA work Schedule and subject to change.; overtime as needed; on-call

Travel: Local

Position Summary: Under general direction, performs electrical distribution engineering design and technical work, assists the Operations Supervisor and GRICUA staff in performing engineering work related to construction, operation, and maintenance of GRICUA's electric system

Responsibilities of this position include the following:

- Provide technical guidance to company's design staff.
- Lead project teams in the development of critical engineering solutions.
- Develop safe and adequate design specifications, construction units, selection of materials and equipment, construction and inspection of overhead and underground distribution line facilities.
- Provide engineering calculations and engineering estimates for new distribution system jobs and distribution maintenance/rehabilitation jobs and small sub-transmission jobs.
- Help develop electrical protection of the electric power distribution system, assuring the proper application of protective equipment, preparing sectionalizing and fuse coordination studies and the implementation of necessary construction.
- Act as SCADA system administrator and lead future development.
- Conduct site inspections to ensure adherence to engineering standards and specifications.
- Act as a lead expert in the work group; train and mentor designers, technicians and drafters.
- Develop highly complex engineering studies, plans, specifications, calculations, evaluations, design documents, and performance assessments.
- Recommend alternative engineering solutions to management to meet business needs.
- Develop and maintain project timeliness and budgets.
- Participate in both long- and short-range planning of the electric power distribution system.
- Develop interconnection specifications for renewable energy projects.
- Prepare routine and special studies and investigations including voltage levels, customer voltage and flicker complaints, phase balancing, capacitor and voltage regulator applications and economic sizing of conductors and transformers.

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- Assist in the preparation and application of rate studies, line extension policies, power requirement studies, right-of-way and joint use practices, and other studies as required or assigned.
- Assist with the selection of and application of materials consistent with RUS and GRICUA's standards and practices, work with and coordinate the engineering phase of materials with manufacturers, representatives and outside consultants as necessary.
- Assist Operations Supervisor in the scheduling and coordination of field work between GRICUA and outside construction and/or engineering personnel.
- Recommend and implement new or improved engineering standards, practices, and methods.
- Acquire and maintain new or existing right-of-way easements, agreements and permits.
- Prepare engineering reports computations, cost estimates, specifications or other engineering details.
- Participate in the development and administration of environmental programs, including PCB's.
- Keep up-to-date with and apply new or improved engineering and management techniques, standards, and practices.
- Attend seminars, conferences and special meetings to update or improve technical skills.
- Keep current on methods and procedures of position and is available for training in other positions, with the objective of increasing the employee's value to GRICUA and the preparation for advancement.
- Performs such other duties as may be requested or assigned to fulfill the needs of GRICUA in the interest of good management practices.
- Shall participate in the on-call program.

Qualifications

Requirements of this position include the following:

Education

- Bachelor of Science degree in Electrical Engineering. Either already have or ability to obtain registration as a Professional Engineer in the field of Electrical Engineering in the State of Arizona.

Experience

- A minimum of five or more years of directly related experience in distribution line design and construction or a combination of transmission and distribution design.
- Demonstrated knowledge and application of principles in area of engineering specialty.
- Project management and leadership skills including the ability to work as a team member, to maintain project timelines, budgets, and deliver on commitments.
- Knowledge of applicable federal, state, local laws, regulations and the National Electric Safety Code.
- Ability to perform effectively in high-pressure situations while maintaining focus and calmness.

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- Demonstrated communication and interpersonal skills involving the ability to work cross-functionally to understand requirements, present alternatives, and recommendations.
- Proficient with the use of personal computers, spreadsheets, calculators, word processing software and distribution analysis software. Experience with automated drafting tools and Geographic Information System is required.
- Certain other knowledge, skills and abilities are necessary to carry out the duties of the Electrical System Distribution Engineer. These requirements include knowledge of ANSI, IEEE, NEMA and other applicable standards, knowledge of voltage control concepts and system protection, knowledge of line design, substation design, and project management, knowledge of mapping, right-of-way, and construction procedures, ability to communicate technical subjects to customers and employees, ability to adapt to, learn, and perform duties of a new nature.
- Possess a valid driver's license.

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