ELECTRICAL PROJECTS ENGINEER

SALARY RANGE: *$90,000 to $120,000, based on qualifications and experience*

Egyptian Electric Cooperative Association
Your Touchstone Energy® Cooperative

POSITION DESCRIPTION

Egyptian Electric Cooperative is seeking an Electrical Engineer to play a pivotal role in planning, designing, and overseeing the implementation of electrical utility projects that meet regulatory requirements and industry standards. This is a fantastic opportunity for a skilled and enthusiastic engineer to gain hands-on experience in the exciting realms of electrical engineering and renewable energy. Your knowledge in electrical engineering, renewable energy, and utility infrastructure will play a crucial role in ensuring the successful development and operations of EV charging infrastructure and various related projects, including other electrical infrastructure projects.

OBJECTIVES

1. The Electrical Projects Engineer will be a key member of the Engineering Department and must possess a strong commitment to high-quality customer service and solid work ethic. Having the ability to follow, document, and maintain standard procedures will help drive efficiencies to maximize productivity.
2. The Electrical Projects Engineer will help coordinate activities inside the Engineering Department, and work closely with other department heads, internal employees, local and statewide trade organizations, AIEC, NRECA, consumer-members of the Cooperative, and the public.
3. The Electrical Projects Engineer will perform all tasks associated with job function as listed in this document, along with other tasks as assigned by EECA management.

POSITION REQUIREMENTS

1. Bachelor's degree in Electrical Engineering or related degree is required. Professional Engineering license and five (5) years of related work experience is preferred.
2. Strong knowledge of electrical engineering principles, electrical codes, safety regulations, and industry standards
3. Excellent communication and interpersonal skills, with the ability to collaborate effectively with diverse stakeholders.
4. Understanding of renewable energy, electric vehicle technology, and the evolving EV market is desirable.
5. Must possess or obtain an Illinois Driver's License (Subject to substance abuse testing).
6. Preferred residency be within a 30-mile radius of Headquarters facility.
7. Be willing to attend continuing education courses and complete certifications, meetings, and training sessions, including online and/or out-of-town, as requested.

PROFESSIONAL EXPECTATIONS

1. Candidate must have a good attitude, skill set, be knowledgeable, innovative, have problem solving skills and excellent inter-personal behaviors.
2. Must be punctual with attendance during work hours, and prompt in performing work assignments.
3. Promote teamwork through effective communication and cooperation.
4. Must have the ability to work effectively and communicate clearly with consumer-members, the general public, and other employees. Act with integrity. Be accountable.
5. Become knowledgeable on Cooperative policy, all safety rules, union contract, and all work procedures. Employees must work within employee guidelines and understand all work rules.
6. Must be proficient with managing and prioritizing multiple projects and be exceptionally self-motivated.
7. Support and assist with the development and direction of EECA strategy, procedures, and programs implemented. Always striving to best serve the consumer-members.
8. Be a positive influence in and outside the Cooperative. Interact with our consumer-members in a manner that shows you care, understand, and are willing to serve.

9. Develop & work within a budget. Report activities in written format monthly. Actively participate, and prompt and on time to meetings.
10. Answers telephone calls, emails, and other correspondences. Participates in outage duty rotation. Is available as needed during system emergencies.

RESPONSIBILITIES

1. Collaborate with cross-functional teams to develop project plans and electrical designs for utility infrastructure projects, including electrical grids, substations, distribution systems, and renewable energy installations.
2. Conduct comprehensive feasibility studies, assessing technical, economic, and environmental factors to determine the viability and optimal design of electrical utility projects.
3. Coordinates and directs the implementation, operation and maintenance of the Cooperative's SCADA system, AMI system, metering, protection relaying and control systems.
4. Ensure compliance with applicable regulations, codes, and standards governing electrical utility projects, such as safety guidelines, electrical codes, and environmental permits, while promoting a safe work environment for the team
5. Demonstrate a commitment to professional development by learning new skills related to electrical engineering, utility infrastructure, and enhancing leadership capabilities.
6. Project Management: Oversee the entire project lifecycle, from conceptualization and planning to construction, testing, and commissioning, ensuring adherence to project timelines, budgets, and quality standards.
7. Documentation and Reporting: Prepare accurate and detailed technical reports, progress updates, and project documentation, maintaining records and ensuring compliance with internal and external reporting requirements.
8. Provide technical guidance and expertise in electrical engineering, reviewing designs, resolving complex technical challenges, and ensuring adherence to best practices and industry standards.
9. Ensure compliance with applicable with local, state, national regulations, codes, and permitting requirements related to solar power installations and EV charging infrastructure, including electrical codes and safety standards, safety regulations, and industry standards.
10. Collaborate with internal and external stakeholders, including project managers, contractors, utility companies, and regulatory authorities, to ensure smooth project execution, resolve technical issues, and address any operational concerns.
11. Knowledgeable of distributed generation resources as well as battery technologies and ultimately leading to using a distributed energy resource management system (DERMS).
12. Conduct thorough assessments of consumer-members' energy consumption patterns and identify potential areas for load reduction and efficiency improvements.
13. Design, develop, and implement demand response strategies and technologies tailored to meet consumer-members' needs. This will be working closely with our power provider.
14. Stay updated with advancements in electrical engineering technologies, methodologies, and industry trends, and drive continuous improvement initiatives to enhance engineering processes and solutions.

REPORTING RELATIONSHIPS

Reports To:	Engineering and Operations Manager
Works Closely With:	Operations Supervisor, Forestry & Safety Manager, IT Department, Member Service Representatives, EVP/General Manager, and all department managers

CLASSIFICATION

This position is non-union, salary/exempt.