



TITLE: Transmission and Distribution Engineer
Classification: Exempt
Department: Energy
Reports to: Operations Manager or V.P. Engineering

Position Summary:

Under general direction of the Operations Manager this position will, plan, direct, supervise, and coordinate the design and construction of an electrical Transmission and Distribution system; prepare plans, specifications, and cost estimates for the installation, maintenance, repair, and expansion of client electrical Transmission and Distribution system; to provide highly responsible and technical staff assistance; and to perform related work as assigned.

Essential Duties and Responsibilities:

Perform site surveys.

Prepare the documents for the Transmission and Distribution network in coordination with other engineers.

Participate in the directions needed for improving the Transmission and Distribution network.

Recommend and give clear ideas and participate in validation of the Transmission and Distribution sites.

Participate in the technical studies and optimization of the Transmission and Distribution network.

Assure coherence between the access network and the backbone network.

Follow up the stock situation and participate in preparing the orders to the suppliers. Participate in preparing technical specs & evaluation of the offers from the supplier.

Understanding the country topography.

Participate in maintenance and failure clearance when needed.

Participate in commissioning & acceptance test for the Transmission and Distribution network.

Responsible for and will apply field mark-ups of project as-built drawings.

Assists project manager(s) to develop scope of work and conceptual design for projects.

Provides engineering, construction, testing & commissioning support for various projects.

Communicates and coordinates project activities with project manager, client, and others as needed.

Ensures the quality and accuracy of work product within standards establish by client.

Regularly meet and correspond with clients or outside personnel with potential marketing responsibilities.

Education and Experience:

Bachelor of Science Degree in Electrical, Mechanical, or Civil Engineering or a minimum 5 years of experience.

PLS-CADD experience required.

Job Knowledge:

Engineering and Technology — Knowledge of the practical application of engineering science and technology. This includes applying principles, techniques, procedures, and equipment to the design and production of various goods and services. Strong knowledge of Transmission and Distribution design.

Building and Construction — Knowledge of materials, methods, and the tools involved in the construction of telecommunications and power plant, houses, buildings, or other structures such as highways and roads.

Administration and Management — Knowledge of business and management principles involved in strategic planning, resource allocation, human resources modeling, leadership technique, production methods, and coordination of people and resources.

Mathematics — Knowledge of arithmetic, algebra, geometry, statistics, and their applications.

Customer and Personal Service — Knowledge of principles and processes for providing customer and personal services. This includes customer needs assessment, meeting quality standards for services, and evaluation of customer satisfaction.

Mechanical — Knowledge of machines and tools, including their designs, uses, repair, and maintenance.

Public Safety and Security — Knowledge of relevant equipment, policies, procedures, and strategies to promote effective local, state, or national security operations for the protection of people, data, property, and institutions.

Design — Knowledge of design techniques, tools, and principles involved in production of precision technical plans, blueprints, drawings, and models.

Production and Processing — Knowledge of raw materials, production processes, quality control, costs, and other techniques for maximizing the effective manufacture and distribution of goods.

Skills:

Time Management — Managing one's own time and the time of others.

Coordination — Adjusting actions in relation to others' actions.

Judgment and Decision Making — Considering the relative costs and benefits of potential actions to choose the most appropriate one.

Speaking — Talking to others to convey information effectively.

Active Listening — Giving full attention to what other people are saying, taking time to understand the points being made, asking questions as appropriate, and not interrupting at inappropriate times.

Critical Thinking — Using logic and reasoning to identify the strengths and weaknesses of alternative solutions, conclusions or approaches to problems including strong analytical and problem solving skills.

Equipment Selection — Determining the kind of tools and equipment needed to do a job.

Reading Comprehension — Understanding written sentences and paragraphs in work related documents.

Mathematics — Using mathematics to solve problems.

Abilities:

Oral Comprehension — Proven ability to listen to and understand information and ideas presented through spoken words and sentences.

Oral Expression — Excellent ability to communicate information and ideas in speaking so others will understand.

Problem Sensitivity — The ability to tell when something is wrong or is likely to go wrong. It does not involve solving the problem, only recognizing there is a problem.

Deductive Reasoning — Strong analytical and problem solving ability.

Inductive Reasoning — The ability to combine pieces of information to form general rules or conclusions (includes finding a relationship among seemingly unrelated events).

Near Vision — The ability to see details at close range (within a few feet of the observer).

Information Ordering — The ability to arrange things or actions in a certain order or pattern according to a specific rule or set of rules (e.g., patterns of numbers, letters, words, pictures, mathematical operations).

Written Expression — The ability to communicate information and ideas in writing so others will understand.

Selective Attention — The ability to concentrate on a task for a period of time without being distracted.

Speech Clarity — The ability to speak clearly so others can understand you.

Supervisory Responsibilities: Some

Licenses, Certifications, Training Requirements:

A valid motor vehicle driver's license in good standing required.

Ability and desire to attain a Professional Engineer license.

Physical, Mental and Visual Demands:

Flow of work involves normal mental and visual attention along with manual coordination much of the time. Physical demands require occasionally lifting over 25 pounds. While performing the duties of this job, the employee is frequently required to stand; walk; sit; use hands to finger, handle, or feel objects, tools or controls; reach with hands and arms; climb stairs; balance; stoop, kneel, crouch or crawl; talk or hear; taste or smell. Specific vision abilities required by the job include close vision, distance vision, color vision, peripheral vision, depth perception, and the ability to adjust focus.

Work Environment:

Most assignments are performed in an office type environment. Occasionally will be exposed to extreme weather conditions, including: hot and cold temperatures, rain, snow, dust, and wind. Will occasionally work at off-site locations. May include some physical labor and environmental distractions such as changes in climate and topography. Physical hazards may be present.

Travel approximately 10% of the time.