

JOB OPENING

CITY OF FARMINGTON

JOB POSITION #91: RELAY / SENIOR RELAY ENGINEER

NUMBER OF VACANCIES: 1

DEPARTMENT: Electric Utility

WORK LOCATION: M.O.C.

PAY CLASS: EPAT-1, EPAT-0, Exempt

HIRING RANGE:

EPAT-0 (\$6,021.10 - \$7,134.61 per month)

EPAT-1 (\$5,473.73 - \$6,486.01 per month)

DAYS WORKED: Mon - Fri

HOURS WORKED: 8 a.m.-5 p.m.

TYPE OF POSITION: Regular Full-time

APPLICATIONS WILL BE RECEIVED UNTIL: Friday, October 1, 2010

JOB DUTIES

*Resumes submitted without a City of Farmington application
will not be considered in our job selection process.*

SELECTION/SKILLS TESTS REQUIRED:

No skills test. Phone interview and/or in-person interview only.

ESSENTIAL DUTIES:

Performs administrative and field supervisory work necessary to coordinate and supervise the development, installation and maintenance of existing and new construction of the Electric Departments SCADA, communications, and relay and control equipment.

Works under the general supervision of the Engineering Supervisor.

Assists in installation and maintenance work done by the Relay.

Assists in the preparation of divisional budget. Also assists in long range protection budget planning in assigned area. Compiles and recommends system improvements for the six-year plan.

Assists in identifying the need for major capital additions and project requirements to maintain integrity of the electric transmission and distribution network.

Coordinates the information gathered and work accomplished.

Designs system improvements and additions. Compiles all necessary supportive data to present findings and reports findings and recommendation to supervisor.

Assists in installation, testing and calibration of protective relaying equipment utilized on the Electrical Utility System.

Assists in installation and testing of remote terminal equipment for the Utility's Supervisory Control and Data Acquisition System (SCADA).

Job Posting #91 - Relay / Senior Relay Engineer

Reviews contingency plans to restore service under emergency conditions.

Conducts studies and develops information as needed to determine system design and customer loading guidelines for Engineering Division.

Collects and verifies engineering data collected at substation and special locations for relay operations.

Performs system integration with computer applications.

*Provides reports on the status of project milestones and adjusts schedules accordingly.

Create reports from SCADA or metering as needed.

Evaluates materials, equipment, procedures, and analyzes material failure patterns to assure safety and reliability of the distribution system protection.

Assists as needed to update and revise contingency plan for the electric utility.

Coordinates activities with technicians concerned with technical developments, and resolving engineering design and test problems.

Runs fault studies for the transmission and distribution system and recommends necessary upgrades in equipment.

Provides fault current to staff on distribution system as requested.

Performs data entry as required for analysis of electrical systems.

Must have ability to coordinate substation relays, reclosers, sectionalizers, and fuses on distribution system.

Assists with power quality issues.

Assists in the installation and calibration of telemetry equipment.

Designs and modifies existing energized control and relay circuits with technique and precision in order to avoid outages or damaged equipment.

Assists in restoring service to the Electric System following SCADA or protective equipment failure or malfunction.

Oversees configuration and maintenance of SCADA master and RTU data bases.

Job Posting #91 - Relay / Senior Relay Engineer

Oversees and assists in the installation, maintenance and testing of protective and terminal equipment associated with Utility's wire-line communications system.

Ensures maintenance of terminal equipment used on the Utility's microwave and light-wave communications systems.

Coordinates scheduling with neighboring power utilities the maintenance of shared protective equipment.

Assures maintenance of test reports on relay equipment.

NON-ESSENTIAL DUTIES:

Perform such other duties as assigned by Electrical Engineering staff, including calculations and designs for distribution system substations, system protection, transmission and capital improvements.

Occasional travel required to attend manufacture's schools.

Assists in diagnosing and repairing malfunctioning electronic and electro-mechanical components used in SCADA, telemetry, and relay equipment. Knowledge of both types of relays necessary.

May install and terminate control wiring on protective relay switchboards and substation electrical equipment.

May assist in installing cables for relaying, SCADA, and controls in conduits, cable trays and troughs.

Substation and transmission design work under direct supervision of Senior Electrical Engineer.

System protection coordination work and analysis under direct supervision of System Protection Engineer.

May serve on various employee committees, as required and assigned.

The duties listed above are intended only as illustrations of the various types of work that may be performed. The omission of specific statements of duties does not exclude them from the position if the work is similar, related or a logical assignment to the position.

QUALIFICATIONS

Job Posting #91 - Relay / Senior Relay Engineer

This position is subject to the City of Farmington's Drug and Alcohol Testing Policy which includes: pre-employment testing, post-accident testing, random testing, reasonable suspicion testing, return to duty testing, and follow-up testing.

High school diploma or equivalent combined with graduation from a four-year college or university with a degree in electrical engineering or a closely related field and a minimum of four years previous experience within an electrical utility setting.

Senior Relay Engineer: High school diploma or equivalent combined with graduation from a four-year college or university with a degree in electrical engineering and a minimum of five years previous experience within an electrical utility working with relays, SCADA and/or substation controls or similar setting and four additional years of experience in an electric utility, consulting, or entity associated with the operation of a high voltage electric system. Seven years minimum electrical engineering experience. A Master degree may be substituted for one year of experience.

Relay Engineer: High school diploma or equivalent combined with graduation from a four-year college or university with a degree in electrical engineering and a minimum of four years previous experience within an electrical utility or similar setting. At least part of the experience in an electric utility, consulting, or entity associated with the operation of a high voltage electric system. Four years minimum electrical engineering experience. Some of the experience with relays, SCADA, controls, and/or communication.

A minimum of two years experience in the use of electrical schematic diagrams, manufacturer's instruction books, and control wiring diagrams.

Knowledge in electrical protective devices and SCADA required.

Knowledge of coordinating protection on breaker, reclosers, sectionalizer fuses.
Knowledge of using fuses curves both manually and with computer programs.

Familiar with relay testing methods and equipment.

Must possess and maintain a valid New Mexico driver's license.

Must demonstrate ability to communicate with others through oral and written media.

Must possess the ability to establish and maintain effective work relationships with co-workers, supervisors, outside entities and the public.

Willingness to accept assignments in all phases of Electric Utility operation for the purpose of developing a well-rounded background.

Extensive Background Check Required.

PHYSICAL DEMANDS:

The physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of the job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

While performing the duties of this job, the employee is frequently required to walk and occasionally will be required to walk over rough, undeveloped, heavy brush, and rocky ground. The employee is frequently required to stand; use hand to finger, handle, feel or operate objects, tools or controls; and reach with hands and arms. The employee is frequently required to sit, talk or hear; and occasionally required to stoop, kneel, crouch or crawl.

The employee must occasionally lift and/or move up to 50 pounds. Specific vision abilities required by this job include close vision, distance vision, color vision, peripheral vision, depth perception, and the ability to adjust focus. Employee will be viewing computer screen for several hours at a time.

WORK ENVIRONMENT:

The work environment characteristics described here are representative of those an employee encounters while performing the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

Work is performed inside/outside in all types of weather conditions.

While performing the duties of this job, the employee occasionally works in outside weather conditions. The employee is occasionally exposed to wet and/or humid conditions.

The noise level in the work environment is moderate while in the field and quiet in the office.

WE ARE AN EQUAL OPPORTUNITY EMPLOYER, M/F.