

Power/Water SCADA Technician

DEPT: Power/Water
DIV:
DATE: January 2022

FLSA: Non-Exempt
EEOC: Technician



POSITION SUMMARY

Operates and maintains the Lehi City Power and Water Department's Supervisory Control and Data Acquisition system (SCADA) and Communication Network

SUPERVISION RECEIVED

Works under the general supervision of the Electric Resource Manager.

SUPERVISION EXERCISED

None

ESSENTIAL FUNCTIONS

- Programs new system and adds to existing SCADA system. Maintains communications for all SCADA systems.
- Repairs and maintains communications networks operated with SCADA system.
- Installs and replacement of SCADA system into Power and Water Services installations with power and control to all equipment and add new components to the data base.
- Reviews plans of all new Water Department pumping and storage facilities.
- Assists supervisor with special projects and designs.
- Assists supervisor in preparation and monitoring of SCADA budget, and makes budget recommendations.
- Performs regular preventative maintenance and upgrades to support SCADA systems, including the following:
 - a. Maintains and checks SCADA system in all Water and Power systems including Substations, Sewer pump houses, booster stations, and storage facilities (solar systems, batteries, transducers, RTU's antennas etc.).
 - b. Maintains and checks SCADA communication systems. Maintains and checks master system hardware, switches, routers and servers.
 - c. Keeps SCADA data files, records and backups.
 - d. Install and test fiber optic communication system.
- Performs regular preventative maintenance and upgrades to support AMI program, including the following:
 - a. Metering network
 - b. AMI system radio communication
 - c. Monitors system alarms and recommends improvements to the AMI system
 - d. Keeps AMI data files, records and backups.
 - e. Maintains and checks AMI system and associated endpoints.

Performs other related duties as required.

MINIMUM QUALIFICATIONS

1. Education and Experience:

- A. Four (4) years of college preferred with emphasis in math and technology or Licenses/Certifications listed below.

AND

- B. Three (3) years of experience in industrial electrical and control, plc and telemetry systems. Has experience with the setup and proper configuration of network switches and routers.

OR

- C. An equivalent combination of education and experience.

2. Knowledge, Skills, and Abilities:

- Has an understanding of the different communication protocols, DNP 3, mod bus, serial, radio, and TCP/IP. Be familiar with Linux systems.
- Must have knowledge of safety requirement working in and around High Voltage (training provided).
- Industrial electrical/electronic wiring systems and communication protocols.
- OSHA, NESC, NEC and APPA safety requirements.
- NERC and Other Federal Regulations

Ability to:

- Communicate effectively, orally and in writing.
- Establish and maintain effective working relations with supervisors, co-workers, the public, officials and employees of other jurisdictions.
- Able to perform under stress. Able to remain calm under pressure of emergency outages.
- Work in harsh weather conditions
- Use personal computers, including word processing, spreadsheet, and specialized software; radio; telephone; and other equipment pertaining to this position.

3. Special Qualifications:

- Must possess a valid driver license.
- Master/Journey Electrician License/Certification preferred

4. Working Conditions:

While performing the duties of this job, the employee is frequently required to stand, walk, talk or hear. The employee is occasionally required to use hands to finger, handle, feel or operate objects, tools, or controls; and reach with hands and arms. The employee is occasionally required to climb or balance; stoop, kneel, crouch or crawl. The employee must frequently lift and/or move up to 25 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. Common eye, hand, finger dexterity required. Mental application utilizes memory for details, verbal instructions, emotional stability, discriminating thinking and creative problem solving. Periodic travel required in normal course of job performance.

Disclaimer: The above statements describe the general nature, level, and type of work performed by the incumbent(s) assigned to this classification. They are not intended to be an exhaustive list of all responsibilities, demands, and skills required of personnel so classified. Job descriptions are not intended to and do not imply or create any employment, compensation, or contract rights to any person or persons. Management reserves the right to add, delete, or modify any and/or all provisions of this description at any time as needed without notice. This job description supersedes earlier versions.

I _____ have reviewed the above job description. Date: _____
(Employee)