

Water Employee Services Authority

SCADA Technician

Job descriptions are intended to present a descriptive list of the range of duties performed by employees in this job. Specifications are NOT intended to reflect all duties performed with the job.

SUMMARY DESCRIPTION

Under general supervision, plans, organizes and participates in a wide variety of advanced professional and technical duties related to the construction, maintenance and repair of SCADA (Supervisory Control and Data Acquisition), telemetry, instrumentation, motor control centers, process control systems and numerous other types of electronic and electrical equipment and machinery associated with municipal pumping, storage and distribution of potable, reclaimed and agricultural water systems and municipal water and wastewater treatment plants.

REPRESENTATIVE DUTIES

The following duties are typical for this classification. Incumbents may not perform all duties and/or may be required to perform additional or different duties from those set forth below to address business needs and changing business practices.

- Participates in the design, management, planning, operation, integration, maintenance, repair, installation and modification of telemetry, process, and equipment control and monitoring systems, operator interface graphics, ladder logic control, communication equipment, application programs and system support programming; reviews, and participates with technical staff in monitoring the database for the SCADA system to display and archive accurate information; researches and evaluates new and existing operational methods, software, techniques and equipment and recommends their application.
- Plans, directs, inspects, participates, schedules and coordinates with other District staff and contractors in the development and installation of systems and equipment used in the automation/upgrading of District facilities. Represents the District and acts as liaison between the District and outside professional consultants in relation to the planning, construction, and implementation of District SCADA and control systems.
- Troubleshoots, repairs, programs, configures, tests, and performs maintenance on a variety of industrial electrical and electronic systems, components and equipment relating to municipal pumping, storage and distribution of potable, reclaimed and agricultural water systems and municipal water and wastewater treatment plants. Performs bench repairs at the component level in shop and field settings.
- Requisitions necessary parts, tools, equipment & supplies; participates in developing annual budget for electrical and instrumentation needs.
- Uses standard and specialized testing equipment such as voltmeters, multimeters, logic analyzers, megohm meters, amp meters, infrared pyrometers, digital analyzers, frequency generators, oscilloscopes and other specialized test equipment.
- Maintains, reviews, and records a variety of reports, including daily activity reports, work orders, work requests, monthly statistical reports, and other reports and records as required. Reviews vendor/contractor invoices and proposals and recommends payment upon receipt of material/completion of work.
- Ability to read, interpret, plan and lay out jobs from blueprints, electrical diagrams, schematics, manufacturer instructions, directions and verbal instruction; maintains records in the form of blueprints, plans and specifications for industrial electrical and instrumentation, equipment and devices. Upon completion of in-house projects produces drawings of modifications made.
- Trains and instructs other staff in the operation and maintenance and safe work practices concerning SCADA and related equipment.
- Must be able to respond to emergency callout situations as necessary and participate in standby or on-call duty including emergency response during after hours, weekends and holidays according to predetermined schedules. Investigates and resolves complaints related to municipal utility maintenance and repair.
- Works with and in areas containing chemicals, dust, fumes, vapors, gases, exhaust, raw sewage, grease and solvents, may do pick and shovel work in trenches, in mud and water, may carry heavy materials and equipment over uneven terrain.
- Reads, understands, and complies with the District Safety Manual; has proper knowledge of use of power operated and hand tools and safety gear; attend safety meetings as required; reports all accidents, violations, or infractions to supervisor.

SCADA Technician (continued)

- Interrelates effectively and diplomatically in all areas of employee relations, always projecting a professional image in keeping with the District's goals and objectives while exercising the highest degree of confidentiality.
- Performs other related duties as assigned.

QUALIFICATIONS

The following generally describes the knowledge and ability required to enter the job and/or be learned within a short period of time in order to successfully perform the assigned duties.

Ability to:

- Appear for work on time.
- Interact effectively with co-workers.
- Understand & follow work rules and procedures.
- Accept constructive criticism.
- Lead and manage others.

Education and Experience Guidelines

Any combination of education and experience that would likely provide the required knowledge and abilities is qualifying. A typical way to obtain the knowledge and abilities would be:

Education/Training

- Graduation from high school or equivalent required.
- Proof of technical schooling, shop courses and electrical/electronics training to provide the desired knowledge
- Additional job-related education may be required to keep pace with updated technology and merit advancement.

Experience

- Five or more years, or the equivalent of full-time, on-the-job (hands on) SCADA and instrumentation experience, preferably in domestic, reclaimed and agricultural water distribution, water or wastewater treatment facilities, or other related fields.

License/Certification

- T2 Water Treatment Operator Certificate Valid Grade T2 Water Treatment Operator Certificate issued by the State of California Department of Health Services or valid Grade II Wastewater Treatment Operator Certificate issued by the State of California State Water Quality Resources Board within 18 months of employment.
- Grade I Certified Control Systems Technician Grade I Certified Control Systems Technician issued by Instrumentation, Systems and Automation Society within 18 months of employment.
- Grade IV Electrical Instrumentation Technologist Grade IV Electrical Instrumentation Technologist issued by California Water Environment Association is desirable.
- D2 Water Distribution Operator Valid Water Distribution Operator Grade D2 Certificate issued by the State of California, Department of Health Services is desirable.
- California Drivers License Must possess and maintain a valid California Driver License, provide proof thereof and maintain a driving record acceptable to the District's automobile insurance carrier.
- CPR Certification required in District provided CPR/First Aid training.

PHYSICAL DEMANDS AND WORKING ENVIRONMENT

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

ENVIRONMENT

- PHYSICAL** • Level Three

- Pulmonary

VISION

HEARING

JOB STATUS Non-Exempt: Employees Association

SALARY RANGE: 29

(83ST)