



**SCADA Technician
Operations Department**

**Full-Time/Exempt
Salary Range: \$71,861 - \$104,542
Hiring Range: \$71,861 - \$88,202**



**Fort Collins – Loveland Water District
South Fort Collins Sanitation District
Revision Date: August 18, 2020
Approved by District Manager:
Approved by Human Resources:**

General Purpose:

The SCADA / Control System Specialist ensures that the Supervisory Control and Data Acquisition system is functioning properly. This position has oversight and upkeep responsibilities for the optimal operation of a wastewater treatment plant, seven (7) sewer lift stations, eight (8) water pump stations, six (6) water tanks, and various other distributed valve and pressure sensing facilities.

Working closely with Management, Engineering, and Operations, this position will also ensure the current Motorola-based radio network, GE iFix and Proficy Historian functions with minimum downtime and disruption, and that future improvements including separated fiber-or-cell based upgraded video and site security is implemented. This position is also responsible for implementing and administering the Districts security including a key and fob program. This position reports to the Utilities Operations Superintendent.

Essential Functions:

- Overhaul existing programming scheme for distributed assets.
- Calibration, maintenance and audits of all sites instrumentation and control systems
- Optimize screen interfaces of each facility, optimizing operations and maintenance of these facilities.
- Provide detailed technical reviews and quality assurance/quality control within the SCADA system and make recommendations to management
- Program seasonal changes in operations
- Train staff on their roles in SCADA
- Evaluate the District's assets for potential SCADA, instrumentation, and controls upgrades.
- Responsible for installing and maintaining security at the District, including but not limited to key and fob tracking system, office building maintenance program management, facilities access permissions and staff entry logging (pump stations, lift stations, etc.).
- Interface with other departments, employees, and outside consultants regarding system capabilities, functions, programs, and applications, and to ensure assets are performing as intended through SCADA control
- Radio system maintenance, maintenance, and improvements.
- Documentation of SCADA and radio system, layout, and programming.

- Perform vulnerability assessments, including coordinating security cameras, maintenance of logging system, and recommend improvements to asset protection.
- Perform system upgrades as new equipment and systems require
- Ability to interpret and process SCADA workorder in a timely manner.
- Review bid and contract documents and specifications for new or upgraded projects that contain instrumentation and controls
- Oversee and coordinate outside contractors for building maintenance

Supervisory duties:

- None.

Knowledge, skills and abilities:

- Ladder Logic Programming Skills, specific to Motorola MOSCAD and ACE systems
- Ability to troubleshoot system problems.
- Ability to operate network servers.
- Comprehension of telemetry communication systems.
- Knowledge of PLC systems and basic electrical work.
- Ability to communicate complex or technical concepts and terms to non-technical employees and others
- Excellent attention to detail and problem-solving skills
- Ability to read electrical schematics
- SCADA system programming skills, specific to GE iFix and Proficy Historian

Additional Requirements/Licenses/Certifications:

- Must have reliable transportation.
- Must have a valid driver's license.

Materials, software and equipment directly used:

- Telephone, computer, fleet vehicle.
- Microsoft Office software.

Physical Activities:

The physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job.

- While performing the duties of this job, the employee is regularly required to talk or hear. May involve climbing ladders, stairs, steps and traversing catwalk grating, pushing, pulling, bending, stooping and kneeling on a frequent basis and working in confined space and manual dexterity required to complete work tasks through safe and proper operation of power and hand tools, and motor vehicles.
- Specific vision abilities required by this job include close vision, distance vision, color vision, and ability to adjust focus.
- Light physical effort may be required by moving and positioning objects up to 20 pounds occasionally and / or 10 pounds frequently.

Education:

- Bachelor's Degree in Information Technology, Management Information Systems, or Computer Science preferred; years of experience also considered.
- Water Industry Certifications in Distribution, Collections and Wastewater desired but not required.
- Certified SCADA Security Architect (CSSA) preferred.

Experience:

- Preferred five years of experience related to the water, wastewater industry. A combination of education and experience will be considered.
- Must have at least five years' experience with Motorola MOSCAD and ACE hardware and programming.
- Must have at least five years of experience with GE iFix and Proficy Historian Programming.
- Five years of experience with Instrumentation and controls.
- Electronics and/or radio systems technician experience a plus.

Working environment:

The work environment characteristics described here are representative of those an employee encounters while performing the essential functions of this job.

- Must be able to respond to Districts' Administration Office (5150 Snead Drive) in thirty (30) minutes.
- Work may be performed in field, and office environment during all types of temperatures, weather conditions and all times of day or night while being exposed to excessive noise from machines. Snowy, wet and muddy conditions will exist. Work may be done in confined or cramped spaces.
- Regular and long-term exposure to work areas containing toxic/caustic/hazardous/volatile chemicals; extreme conditions such as hot/cold; sharp hazards; dust/fumes/gasses; electrical shock; moving mechanical parts; high pitched and/or constant loud noise; sometimes long-term contact with bacteria and odorous, infectious/obnoxious material
- Work may involve assisting with sampling, calibration of equipment and process instruments calibration / maintenance often in difficult areas.
- Ability to use gas monitoring equipment, safety tripod and harness and any other required safety equipment for entering both high and low hazard confined spaces for either plant.
- Personal Protective Equipment (PPE) required including cold weather gear, eye protection, gloves, and provided uniform.
- A clean and safety-conscientious environment required while employed
- Work may involve long hours and overtime during holidays, weekends, and evenings.
- Subject to call-back work and incumbent must be able to respond to emergencies at all hours.

Passing a driving record (MVR) and criminal history background checks will be required prior to the start of employment.

I have read this Job Description, asked for clarification of any items that are unclear to me, and agree to fulfill my duties as outlined. I understand that this is not all-inclusive, and that I will be responsible for performing other duties as assigned. I understand that this does not constitute a contract of employment and that either the company or I may terminate my employment at will, with or without cause.

Printed Name

Date

Signature