Silicon Valley Clean Water is accepting Applications for the position of Senior Plant Mechanic – Control Systems Technician

$8,850 - $11,864 monthly depending on qualifications and experience; 2% certification incentive pay available; benefited position; represented by International Union of Operating Engineers, Stationary, Local 39

Silicon Valley Clean Water (SVCW), formerly known as South Bayside System Authority, is a wastewater treatment facility located on the western shore of San Francisco Bay which provides wastewater treatment for 220,000 residents and businesses in southern San Mateo County. SVCW opened in 1982 and plays a vital role in protecting the public health of the surrounding community as well as the environmental health of San Francisco Bay. SVCW is a joint undertaking of the cities of Belmont, San Carlos, Redwood City and West Bay Sanitary District (serving the greater Menlo-Atherton area).

About the Position
Under general supervision, performs a variety of skilled electrical, electronic, pneumatic and mechanical instrumentation and controls; installation, fabrication, troubleshooting and repair of computerized automation control work at a modern wastewater treatment facilities and remote pumping stations, and assists in the development of maintenance programs for the preventive maintenance and improvements of all Instrumentation and control system.

Every employee appointed to a position at SVCW shall serve at the will and pleasure of the appointing authority.

Knowledge, Skills and Abilities
- Principles, practices, and methods related to monitoring and troubleshooting of various data acquisition software and hardware.
- Various PLC/HMI Hardware and associated programming software applications.
- Control systems theory and its practical application to process control and field instrumentation.
- Advanced computer programming.
- Electronic theory, work methods, tools, and precision measuring/testing equipment used in SVCW’s building maintenance, recycled water, and wastewater facilities.
- Industrial Automation Communications, Wire-less Radio, HMI, and SCADA equipment.
- Regulations pertaining to electrical & electronic installation, maintenance, and repairs.
- Electronic schematic diagrams, AutoCAD As-built drawings.
- Record keeping principles and procedures.
- Analyze programming, observe monitoring signals, troubleshoot system, understand system operation, and explain new programs to O&M staff.
- Read and understand sketches, equipment manuals, schematic diagrams, construction drawings, and P&ID drawings.
- Safely and effectively use and operate hand tools, mechanical equipment, power tools, and equipment required for the work.
• Inspect, operate, diagnose problems, and perform preventive maintenance and repair work on electronic circuits and systems; act appropriate action when failures occur.
• Plan, organize, coordinate, and oversee the work of contractors.
• Perform a variety of support for engineering, fabricating, and design duties related to wastewater systems construction, maintenance, and repair.
• Identify and take appropriate action when unusual operating problems occur.

Typical duties
• Inspects, installs, repairs, maintains, calibrates, tests, and troubleshoots process instrumentation, such as indicators, recorders, flow meters, transmitters, transducers, controls, regulators, process control equipment, valve actuators, and other equipment related to SVCW's recycled water, wastewater operations, co-generation, lift stations and other related facilities.
• Oversees, maintains, tests, and repairs electronic equipment, including metering and recording instruments, control apparatus, data logging and display equipment, circuits, transformers, uninterruptible power supplies, and electronic components of process control, electronic equipment boards, communications and telemetry systems, SCADA, and PLC software and hardware.
• Installs, troubleshoots, and repairs automated telemetry equipment including calibration of input sensors such as flow meters, level transducers, pressure transducers, and other monitoring equipment.
• Develops SCADA screens for the purpose of monitoring operational processes and field equipment and makes changes to existing application software to improve or expand control system or management information system performance.
• Assists in the development, design, and installation of new computer programs when required for the addition of new control system or management information system capabilities.
• Troubleshoots and corrects SCADA programming problems and writes programs for new or expanded SCADA functions. Monitor and implement technological advances in SCADA programs and advise management about upgrades and improved programs as necessary.
• Trains operations staff in the use of SCADA systems to monitor operational processes.
• Incorporates changes and additions to process control descriptions and proportional, integral, and derivative (PID) controls.
• Sets up and adjusts alarms, alarm software and paging programs, including alarm dialer, per Operations Department requests.
• Assists operators in the development of process control strategies as necessary; implements system set points to improve process control, improve process efficiency, and keep processes in a steady state conditions based on the recommendations of operations staff.
• Provides technical and functional support to assigned staff; assists in developing work plans, procedures, and schedules.
• Serves as subject matter expert (SME) and assist project manager on various capital improvement projects related to SCADA and electronic systems.
• Reads and interprets electronic schematics, mechanical and instrumentation drawings, wiring diagrams, and construction drawings necessary to install, service, and repair equipment in accordance with related regulations and vendor specifications.
• Maintains SVCW’s two-way radio, communication system and repeaters.
• Maintain and update electronic operational and maintenance manuals.
• Observes appropriate safety procedures and works to applicable codes and guidelines; attends training and safety sessions as assigned.
• Drives a motor vehicle.
• Performs other duties as assigned.

Effectively work in a collaborative organization focused on continuous improvement; establish and maintain a positive customer service attitude and effective working relationships with internal and external customers; demonstration of strong two-way communication skills, including the ability to listen, explain and facilitate; ability to ask for input; offer help without being asked; accept suggestions; work with others to solve problems; and provide recognition and encouragement; ability
to address co-workers needs; identifying issues and concerns, exploring solutions and implementing improvements.

Desirable Training, Education, Experience and Certification

- High School Diploma or an equivalent certificate or diploma recognized by the State of California. Equivalent to completion of an Associate of Arts or Associate of Science degree preferably related to electronics, instrumentation, control systems, and/or computer systems.
- Five (5) years of journey level electrician/controls Technician experience in an industrial environment, maintaining, installing, troubleshooting, and repairing a wide variety of process instrumentation, control systems and communications systems.
- Minimum of four (4) years working in a wastewater or water facility is desirable.

Licenses and Certificates

- Must possess at minimum a California Water Environment Association (CWEA) Grade II PM Electrical/Instrumentation Certification or ISA Certification as a Controls System Technician Level II or have experience and/or education equivalent to a journey level electrician/controls Technician, acceptable to SVCW.
- Valid California Class C Driver’s License and an acceptable driving record as defined by SVCW’s Driving Eligibility Standards.
- CPR and First Aid certification desirable.

Physical and Sensory Requirements

While performing the duties of this job, the employee is regularly required to walk, stand, bend, stoop, kneel, and climb. The employee frequently is required to use hands and fingers to handle or feel; reach with hands and arms; and talk and hear. The employee must regularly lift and/or move up to 25 pounds and occasionally lift and/or move up to 50 pounds.

Work Environment

While performing the duties of this job, the employee regularly works in indoor and outdoor conditions. The employee works at heights, uses power tools, and works with and around machinery having moving parts. The employee is exposed to outside weather conditions, to gases, fumes and odors, and to untreated and partially treated wastewater. The employee operates light utility vehicles, including a variety of powered vehicles, forklifts and special purpose equipment. The noise level in the work environment may be moderate to loud. May be assigned, or called in, to work in the evenings, nights, and days and/or on weekends, including holiday.

Pre-Employment Procedures

The selection process may consist of an evaluation of the applicant's qualifications, appraisal board interview, written examination, practical exercise and/or internal Department interviews and reference check. Upon completion of the selection process, an offer of employment may be conditionally based upon the successful completion of an employment and education verification, criminal background check, and a pre-employment medical exam.

How to apply

- Application & Supplemental Questions can be found on the employment page at www.svcw.org
- Mail or hand-deliver the following to SVCW, c/o Jennifer Flick, HR Director, at 1400 Radio Road, Redwood City, CA 94065
  - completed and signed application. A resume and cover letter will not be accepted in lieu of the Authority’s application form.
  - completed supplemental questionnaire, and;
  - a current DMV Driver Report.

Filing Deadline - March 30, 2020 by 3:00 p.m. We encourage qualified applicants to apply now. Applications received after the deadline will be returned to the applicant.