



Silicon Valley Clean Water is accepting applications for the position of Plant Mechanic - Electrician

\$6,309 - \$8,459 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 skilled electrical maintenance, installation and repair work at a modern wastewater treatment facility with remote pumping stations, and assists in the development of maintenance programs for the preventive maintenance and improvements of all electrical systems and equipment.

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

Knowledge, Skills and Abilities

- Working Knowledge of: Standard terms, practices, procedures, and modern methods common to the electrical trade as practiced in utility plant processes involving low to medium voltage equipment and electronic controls; shop mathematics; the use and operation of measuring and testing devices; hand tools and equipment of the trade; the National Electrical Code, OSHA, and the industry standard electrical safety requirements specified by the National Fire Protection Association; principles of electrical installation, maintenance, operation, and testing.
- General Knowledge of: The maintenance and operation of diesel engine power generating and related equipment; Electrical Switchgears, programmable logic controllers and relay ladder logic.
- Skill in: Planning, laying out, and executing journey level electrical work in a safe manner; installing, maintaining, trouble-shooting, and repairing a wide variety of electrical and solid state electronic equipment used in power transfer and industrial process control for wastewater treatment, and diesel engine power plant operation; reading and interpreting wiring diagrams and specifications; making estimates of labor and materials; operating a motor vehicle safely.

Typical duties

- Performs rigging to facilitate installation and repair work.
- Inspects work performed by contractors.
- Participates in the planning, coordination and scheduling of work.

- Writes work plans.
- Performs as lead person on maintenance/electrical projects.
- Performs a variety of duties as a member of a confined space entry team.
- Investigates and writes specifications to facilitate materials ordering.
- From work orders, drawings, specifications, and verbal instructions, performs a variety of complex tasks and fabricates parts, fittings and assemblies used in the repair and construction of the plant and pump station facilities, treatment process units and their control systems.
- Works as a SVCW team member in all work efforts towards the preventive maintenance, repair and installation of all facilities process systems, structures and equipment.
- Maintains documentation of materials specifications and project plans.
- Develops and implements improvement projects for the facilities structures, systems and equipment.
- Performs component level repairs of highly complex motor drive systems (AFD/VFD's).
- Assists other mechanics, electricians, instrumentation technicians and painters in the performance of their work tasks.
- Uses hand and power tools, precision measuring instruments.
- Makes written estimates of labor, materials, and supplies required for the performance of specific assignments.
- Keeps records; makes verbal and written reports.
- Provides electrical safety and skills training to Plant Mechanic - Electricians and other staff.
- Performs a variety of 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 and Experience

- High School Diploma or an equivalent certificate or diploma recognized by the State of California.
- Minimum of one (1) year experience in skilled Electrical maintenance work involving electrical, electro-mechanical, instrumentation, and mechanical repair and installation. Repair experience with Industrial process type equipment and control systems repairs.

Licenses and Certificates

- Must possess or obtain within 18-months a California Water Environment Association (CWEA) Grade I PM Electrical/Instrumentation Certification
 - or Possession of a Certified General Electrician License from the State of California Department of Industrial Relations
 - or have experience and/or education equivalent to a journey level electrician, 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 holidays.

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
- Email (jflick@svcw.org) or mail 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 – August 24, 2020 by 3:00 p.m. We encourage qualified applicants to apply now. Applications received after the deadline will be returned to the applicant.

**SVCW Senior Plant Mechanic - Electrician
Supplemental Questionnaire**

1. Do you have a high school diploma or equivalent to the completion of the twelfth (12th) grade?
☐ Yes
☐ No
2. Do you have a valid drivers' license?
☐ Yes
☐ No
3. Do you have any of the following certifications? Please check all that apply or "none of the above".
☐ CWEA Electrical/Instrumentation Technician Grade I
☐ CWEA Electrical/Instrumentation Technician Grade II
☐ Certified General Electrician issued by the CA State Department of Industrial Relations
☐ Journeyman Electrician, Master Electrician, Electrical Inspector from a licensing state
List State(s) _____
☐ Other form of certification that would qualify at a Journeyman level for this position
List Certification Type: _____
☐ None of the above
4. Have you completed trade school coursework, manufacturer certification, or specific education in any of the areas listed below? Please check all that apply or "none of the above".
☐ Industrial Electrical Systems
☐ Industrial Power Electronics
☐ Variable Frequency Drives
☐ Electronic Reduced Voltage Soft Starters
☐ Battery Based Power Systems
☐ Solar Power Systems
☐ Instrumentation
☐ Control Systems – Industrial Processes
☐ Other Electrical Systems
List/Describe: _____
☐ None of the above
5. How many years of experience do you possess in maintaining, troubleshooting, installing and repairing a wide variety of industrial process electrical systems, electric power supplies, motor control centers, power distribution panels?
☐ More than 4 years
☐ 2 – 4 years
☐ 1-2 years
☐ Less than 1 year
☐ No experience
6. How many years of experience do you have working at a water, wastewater treatment or similar industrial process facility?
☐ 3 or more years
☐ 1-3 years
☐ Less than 1 year
☐ No experience

7. Please describe your experience working at a water, wastewater treatment or similar facility. If you do not have experience, please answer N/A.
8. Do you have experience working with a Computerized Maintenance Management System (CMMS) (e.g. Lucity, INFOR, Hansen, Datastream, Maximo, EMaint, etc)?
- ☐ Yes
☐ No
9. Do you have experience working on the following types of systems? Please check all that apply or "none of the above".
- ☐ Fire Alarm/Security systems
☐ Motor Control Centers
☐ Transformers / Electric Motors
☐ Power monitoring systems
☐ Variable Frequency Drives (VFD's)
☐ Robotics / Vision
☐ Generator Systems
☐ Alternative Energy Systems
☐ None of the above
10. Briefly list your experience with any of the following general areas of electrical work:
- ☐ Electrical system troubleshooting
☐ Conduit and conductor installation, involving advanced and concentric bending principles
☐ Electric motor maintenance and replacement
☐ Lighting systems or components
☐ Power generation Equipment – Generators, Inverters, Power Factor Compensation or similar
☐ Electrical Switchboards
☐ Building energy management systems.
☐ Fiber Optics or Specific Communication Protocols (Profibus, Modbus, Ethernet/IP, DNP3, etc.)
11. Do you have experience working on the following types of documentation? Please check all that apply or "none of the above".
- ☐ Process and Instrument Diagrams (P&ID's)
☐ Electrical Single Line / Distribution Drawings
☐ Control Systems / Electrical Control Schematics
☐ Building Controls / HVAC Systems
☐ None of the above
12. SVCW Maintenance Technicians have a 30-min unpaid lunch each day. We offer 2-work schedules with the day beginning at 6:00am. What would be your preferred schedule?
- ☐ 5 – 8-hours days
☐ 4 – 10-hour days
13. What was your last involvement, prior to the current date with National Electrical Code continuing education to maintain certifications?
- List the approximate Date and type of involvement:

14. Which of the following software applications are you currently proficient in?

- ☐ Microsoft Excel
- ☐ Microsoft Word
- ☐ Microsoft SharePoint
- ☐ CAD – Any Versions
- ☐ PLC Programming – Any
- ☐ None of the above
- ☐ Other

If Other, briefly describe: _____