



Job Title: Instrumentation and Electrical (I&E) Technician
Location: Long Beach Area, CA
Experience/Qualifications: CWEA Electrical/Instrumentation Technology Grade II Certification or higher preferred. Six years of experience related to the maintenance of systems used in water or wastewater treatment plant facility operations with an emphasis on instrumentation and electrical.

Job Objective

The Instrumentation and Electrical (I&E) Technician will perform a full range of duties associated with maintaining, calibrating and otherwise supporting operations of water treatment systems and equipment. This position encompasses a specialized focus on the operational functionality of instrumentation and electrical. The position will report to the CPO and/or Lead Operator, who has supervisory authority regarding activities and works in close coordination with the Project Manager.

This Advanced Water Treatment System has a capacity of approximately 8.0 MGD and employs Ultra Filtration and Reverse Osmosis membrane technologies followed by Advance Oxidation Process. The high-quality treated effluent is injected into the aquifer to prevent sea water intrusion. The facility operates twenty-four hours per day and is staffed ten hours per day with highly skilled operators and technicians. The system includes a SCADA and control system with remote access and control.

Principal Duties and Responsibilities

- Perform skilled technical activities under the direction of the Lead Operator, CPO or the Project Manager pertaining to the operation of the AWTF.
- Maintenance and preventative maintenance activities include, but are not limited to:
 - Instruments and analyzers (Chlorine, TOC, Ammonia, UVT, Turbidity, etc.)
 - Valves.
 - Actuators.
 - Pumps.
 - Motors.
 - Compressors.
 - Generators.
 - Flow Meters.
- Perform removal and/or replacement of Ultra Violet (UV) advanced oxidation lamps
- Knowledge and understanding of the permit obligations for the AWTF
- Participate in facility housekeeping activities, including tasks such as sweeping, cleaning, sanding, painting and other tasks as assigned.
- Perform work in non-permitted and permitted areas, including designated confined spaces.
- Participate in training as required to ensure appropriate level of knowledge.
- Compile, prepare and maintain reports and logs as needed.
- Inspect and evaluate system and equipment functionality as well as overall treatment facility under the direction of the Lead Operator, CPO or the Project Manager.
- Troubleshooting and repairing instruments and systems.
- Assigned duties may require weekend and/or holiday work as required.

- During a plant emergency, may be called in to assist with operational activities. Must be able to report to facility within 60 minutes of notification.
- Promote and adhere to PERC's written corporate Safety program
- Communicate any problems/issues to the Maintenance Supervisor
- All other tasks as assigned by Lead Operator, CPO or the Project Manager
- Maintain acceptable attendance per PERC Water standards

Specialized Duties and Responsibilities

Under the direction and oversight of the Lead Operator, CPO or Project Manager, specialized duties include the following:

- System and equipment operation, repair and calibration, including, but not limited to low voltage signal loops and isolators, pneumatic and electric valve controllers and positioners, programmable logic controllers, flow meters, level, pressure, and temperature transmitters, analyzers, digital buss devices, and other related components.
- Installs, troubleshoots and repairs electrical equipment and lighting. Equipment to include motors and drives, starters and contactors, circuit breakers, switchgear, distribution panels and enclosures, discharge and incandescent lighting and other related equipment.
- Support related to PCS operations and maintenance, including ancillary equipment.
- Prepares and maintains reports and documentation detailing work progress and project operational parameters and upgrades.

Knowledge, Skills and Abilities Required

1. Must possess a high degree of self-motivation.
2. Must possess working knowledge of the following: Safe Electrical Practices and Principals, Instrumentation and Sensors, Low Voltage Control Loops, Pneumatic Control Systems, Process Control Instrumentation, Lighting Systems, Safe Work Practices and Recordkeeping Activities.
3. Must have good mechanical aptitude, and manual dexterity. Ability to use power and hand tools in wet conditions.
4. Ability to work in close proximity and in concert with others. Must be able to establish and maintain effective working relationships with others
5. Able to safely operate a forklift and other heavy sized equipment.
6. Ability to comprehend technical manuals and prints
7. Must possess good verbal, written and interpersonal skills to effectively communicate with coworkers, supervisor and the general public, Ability to exchange or convey information and to receive work direction
8. General computer knowledge and ability to use computers for communications, reports and work assignments, specifically in the facility CMMS system.
9. Physical:
 - Body Positions: Standing, sitting, walking, climbing, balancing, stooping, kneeling, reaching, pushing, pulling, lifting, working in tight spaces, and various repetitive motions.
 - Heavy Work: Exerting up to 50 pounds of force occasionally to move objects. May be subjected to moving mechanical parts, electrical currents, vibrations, fumes, odors, dusts, gases, poor ventilation, chemicals, oils, extreme temperatures, workspace restrictions, noises and travel. Required to wear personal protective clothing/equipment appropriate for job assignments.

- Body Movements: Use of hands, eyes, arms and voice. Must be able to lift, push and pull up to 40 pounds on a regular basis. Must be able to climb up and down stairs and ladders.
- Must be able to climb on, or into facility equipment and systems (Confined Space Training required).
- Vision: See in the normal visual range with or without correction. Vision enough to read computer screens, printed documents and to operate assigned equipment.
- Hearing: Hear in a normal audio range with or without correction
- Must be able to work weekends, nights or holidays as needed.
- On call availability as scheduled

10. Mental:

Language ability includes reading, writing, spelling, and the ability to communicate clearly on business topics in English.

Education, Certifications and Experience Required

1. **Education:** High School Diploma or GED equivalent required. AA degree is preferred, or an equivalent combination of education and experience to meet the essential duties of the job such as those listed above.
2. **Certifications:** Valid California Class-C Driver's License required. CWEA Electrical/Instrumentation Technology Grade II Certification or higher preferred.
3. **Experience:** Six years of experience related to the maintenance of systems utilized in water and/or wastewater treatment – principally related to instrumentation and electrical.

Company Overview

PERC Water Corporation is a water recycling company focused on returning water to nature. We seek to hire productive workers and innovative thinkers for all positions within the company. PERC encourages all employees to take ownership of the processes they are part of and responsible for. We design, build, operate and manage water recycling facilities throughout the United States, are committed to producing water of the highest quality, and guarantee the risks associated with water recycling for every client. **Company Web site:** www.percwater.com

Salary and Benefits: Salary commensurate with experience. Employer sponsored medical, dental, vision, life and LTD insurance; Paid Vacation, Holiday and Sick Time. Company sponsored 401k Plan

To Apply: E-mail resume and a brief cover letter/e-mail introduction to: employment@percwater.com. Please reference the job location in your e-mail

Employment offers are contingent upon the successful completion of a background check and passing a pre-employment drug and alcohol screen. Must have a valid CA Driver's License and be able to provide proof of insurance.