

Job Description Electrical Technician

Job No. ET002

Salary Range 41 (\$87,000 - \$111,000)

Non-Exempt

Position Summary:

Under direction of the Operations Manager, the Electronics Technicians are responsible to maintain, install, troubleshoot, and repair all electrical, instrumentation, and test equipment at the water treatment plants, pump stations, remote stations, water banks, chemical feed stations, and the administrative offices.

Duties/Responsibilities:

Essential duties include, but are not limited to the following:

- Assists with the installation, testing, troubleshooting, and maintenance of a wide variety of electrical and instrumentation equipment used in the treatment and distribution of potable water.
- Calibrates sensors and chemical feed systems.
- Designs and installs equipment needed to upgrade existing controls.
- Develops and uses diagnostic problem-solving techniques.
- Reads and interprets wiring diagrams and/or blueprints.
- Maintains microwave and telemetry equipment.
- Performs other duties as assigned.

Qualifications:

Any combination of education and experience that provides the knowledge, skills, and abilities as described herein.

Experience:

- Either two years of technical training in electronic equipment installation and maintenance, **or**
- Four years performing industrial/commercial electronic instrument and control system repair and maintenance.

Licensure/Certification:

- Must have a Valid California driver's license.

Knowledge of:

- Practices, theories, methods, techniques, tools, and equipment used in the design, installation, testing, calibration, maintenance, and repair of electrical and electronic equipment and devices.
- Operating characteristics of electronic components.
- Principles and practices associated with electrical circuitry.

- Installation and application of remote telemetry systems.

Skills to:

- Analyze and troubleshoot using sight and sound testing equipment.
- Read blueprints and diagrams.
- Use hand and power tools.
- Use standard computer applications.

Ability to:

- Design and build electric systems.
- Understand electronic circuitry and related systems.
- Learn quickly and adapt to change.
- Establish and maintain effective working relationships.

Physical Requirements:

On a daily basis, this position requires the ability to climb, stoop, kneel, crouch, crawl, reach with hands and arms, stand, walk, push and pull, use fingers to pick, pinch, or grasp objects, talk, hear, and maintain balance on narrow or slippery surfaces. It also requires the ability to see both at a distance and close, and to distinguish colors and shades of color, and to rely on depth perception. It is also a daily requirement to operate a truck, motor vehicle, or tractor.

Work is mainly performed inside in a dry atmosphere with some noise, exposure to dust, temperature changes, and electrical energy. Work is often performed on slippery or uneven surfaces, and around moving objects or vehicles,

On an occasional basis, this position requires the ability to crawl, sit for extended periods, and feel objects. Occasionally there is exposure to fumes or gases, chemicals, or hot and humid areas. May also work in confined spaces or below ground.

This position requires the ability to lift and carry up to 50 pounds.