

Goleta Sanitary District Job Description

Job Title: Electrician
Department: Facilities Maintenance
Reports To: Facilities Maintenance Supervisor
FLSA Status: Non Exempt (Non-Salary)

SUMMARY

Under general supervision, performs a wide variety of skilled journey-level duties in the maintenance, design, modification, construction, installation, and repair of electrical and electronic systems, commercial & industrial wiring, machinery, motors, equipment, devices, plant control systems, and related facilities of District Wastewater & Reclamation treatment, also Wastewater Collection System, performs other duties as required.

ESSENTIAL DUTIES AND RESPONSIBILITIES include the following. Other duties may be assigned.

Install, inspect, test, calibrate, repair, troubleshoot, upgrade and maintain a wide variety of electrical/electronic equipment and software related to wastewater collection, treatment and reclamation facilities; research, design, procure, and install equipment and/or up-grade existing electrical/electronic systems; conduct routine maintenance on electrical/electronic equipment, motor controls, variable frequency drives(VFD's), Motor Control Centers (MCC's), lighting on processes, buildings, and physical structures. Assist in the maintenance of SCADA system including Modicon PLC's, OIT's. Must be able to read, interpret, and follow complex blueprints, diagrams, and sketches. Follows all OSHA guide lines, uses safe working practices, and reports all hazardous work conditions.

Have a working knowledge of basic computer programs and software.

Researches equipment and parts information and orders the necessary parts to maintain equipment and make effective repairs, coordinates repair and maintenance work with plant operators and outside agency technical personnel, to ensure wastewater treatment processes are not impacted.

Have ability to make preliminary and post construction drawings of equipment modifications and new installations.

Dismantles, repairs, overhauls, reinstalls, and calibrates; electrical motors, motorized valves, hand and power tools, conduit, and wire systems, electrical inspections and start-up testing, repair enunciation system, access control systems, cathodic protection, breakers, blowers, meters, Chemical analyzers, VFD's, PLC's, Control panels, and laboratory equipment.

Responds to night and weekend emergency call outs.

Has direct involvement in planning the installation of new and/or refurbished plant Electrical equipment, and machinery.

Helps trains Operations and Maintenance personnel, on the safe operation of new or

modified electrical systems and equipment, provides technical advice, training and support to all District staff.

Makes contacts, monitors, inspects and coordinates work performed by contractors.

QUALIFICATIONS

To perform this job successfully, an individual must be able to perform each essential duty satisfactorily. The requirements listed below are representative of the knowledge, skill, and/or ability required. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

Knowledge Of: Tools, materials, equipment and methods used in installing electrical equipment, principles of electrical controls and devices; maintenance, operation, testing and repair, and preventative maintenance applicable to Electric Motors, generators, blowers, and other electrical equipment; the effects of hazardous chemical conditions encountered in a wastewater treatment plant; occupational hazards encountered in the course of work, and standard safety precautions and procedures; standard practices, methods and techniques used in the Electrical, and Instrumentation trades.

Ability To: Operate power tools, measuring and testing devices, hand tools, and estimate costs, time and labor requirements; troubleshoot and diagnose problems; read and interpret technical illustrations, blueprints, maps, plans, specifications, schematics, wiring and pneumatic diagrams; work in confined spaces and safely use self-contained breathing apparatus; keep records and schedule maintenance work; establish and maintain effective working relationships with coworkers and others encountered in the course of work; operate an office computer and use industry and office software applications.

EDUCATION and/or EXPERIENCE

High school diploma or general education degree (GED) and five years of journeyman Industrial level experience in the design, repair, installation and maintenance of Electrical Systems and Equipment used in an industrial facility or a CWEA Instrumentation II or higher Certificate or an equivalent combination of education, training and experience. An Associate Degree from an Accredited Institution is highly desirable.

LANGUAGE SKILLS

Have the ability to read and interpret documents such as safety rules, operating and maintenance instructions, and procedure manuals. Have the ability to write routine reports and correspondence. Have the ability to speak effectively before groups of customers or employees of District.

MATHEMATICAL SKILLS

Have the ability to add, subtract, multiply, and divide in all units of measure, using whole numbers, common fractions, and decimals. Have the ability to compute rate, ratio, and percent and to draw and interpret graphs.

REASONING ABILITY

Ability to apply common sense understanding to carry out instructions furnished in written, oral, or diagram form. Have the ability to deal with problems involving several concrete variables in standardized situations.

CERTIFICATES, LICENSES, REGISTRATIONS

Possess a valid Class C California driver's license and a satisfactory driving record.

Possession of a California Journeyman Electrician's License or ability to obtain in 18 months, or an equivalent or higher certificate or license approved by the District or an Associate Degree from an accredited institution with a minimum of (3) three years of Journeyman industrial level experience.

Have the ability to obtain American Red Cross First Aid and Cardiopulmonary Resuscitation (CPR) certificates.

PHYSICAL AND MENTAL DEMANDS

While performing the duties of this job, the employee is regularly required to stand; use hands to finger, handle, or feel; reach with hands and arms; talk or hear; and taste or smell. The employee frequently is required to walk; climb or balance; and stoop, kneel, crouch, or crawl. The employee is occasionally required to sit. The employee must regularly lift and/or move up to 25 pounds and frequently lift and/or move up to 50 pounds and occasionally lift/or move up to 100 pounds. Specific vision abilities required by this job include close vision, distance vision, color vision, peripheral vision, depth perception, and ability to adjust focus.

The employee is required to occasionally work in confined spaces and other areas with potentially hazardous atmospheres requiring the use of self-contained breathing apparatus (SCBA) or respirators and in that respect is required to follow the District's facial hair policy.

WORK ENVIRONMENT

The work environment characteristics described here are representative of those an employee encounters while performing the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

While performing the duties of this job, the employee is regularly exposed to wet and/or humid conditions, moving mechanical parts, fumes or airborne particles, toxic or caustic chemicals, outside weather conditions, risk of electrical shock, and explosives. The employee is frequently exposed to vibration. The employee is occasionally exposed to high, precarious places. The noise level in the work environment is usually loud.