

## **Goleta Sanitary District Job Description**

**Job Title:** Mechanical/Electrical Technician  
**Department:** Facilities Maintenance  
**Reports To:** Facilities Maintenance Supervisor  
**FLSA Status:** Non Exempt (Non-Salary)

### **SUMMARY**

Under direction from the Facility Maintenance Supervisor, performs a wide variety of skilled tasks in the installation, repair, troubleshooting, modifying, and maintenance of wastewater treatment plant and collection system mechanical, electrical, pneumatic, and electronic instrumentation equipment. Maintenance of Facility equipment includes preventative maintenance, lubrication, repairs to pumps, valves, bearings, belts, and alignment of equipment.

### **ESSENTIAL DUTIES AND RESPONSIBILITIES**

Inspects, maintains, repairs and fabricates machinery, equipment systems, buildings, and physical structures. 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, welding, automotive, and electrical skills.

Works as a member of the maintenance team and may lead the work of others in installing, testing, or repairing of mechanical equipment.

Researches equipment and parts information and requests the necessary parts to maintain equipment and make effective repairs. Coordinates repair and maintenance work with plant operators and outside agency technical personnel.

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

Dismantles, repairs, overhauls, and reinstalls mechanical and electrical motors, pumps, valves, engines, blowers, pneumatic valves, laboratory equipment and air compressors.

Performs a variety of support level engineering, design and fabricating duties.

Calibrates, repairs, troubleshoots, installs and electronic monitoring equipment.

Responds to night and weekend emergency call outs.

Coordinates activities with operations personnel and contractors to ensure Wastewater Treatment processes are not impacted.

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

Trains operations and maintenance staffs, on the operation of a new or modified system. Provides technical advice, training and support to District staff.

Contacts, monitors, inspects and coordinates work performed by contractors.

Performs other duties as assigned.

## **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 heavy mechanical equipment; principles of pneumatic controls and devices; maintenance, operation, testing, repair, and preventative maintenance applicable to motors, pumps, generators, blowers, and other mechanical equipment; 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 mechanical, plumbing and carpentry trades.

**Ability To:** Operate heavy machinery, welding equipment, 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, 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 office and industry related software applications.

## **EDUCATION and/or EXPERIENCE**

High school diploma or general education degree (GED) and four years of journey level experience in the design, repair, installation and maintenance of mechanical equipment used in an industrial facility or an equivalent combination of training and experience.

## **LANGUAGE SKILLS**

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

## **MATHEMATICAL SKILLS**

Ability to add, subtract, multiply, and divide in all units of measure, using whole numbers, common fractions, and decimals. 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. Ability to deal with problems involving several variables in standardized situations.

### **CERTIFICATES, LICENSES, REGISTRATIONS**

A valid Class C California driver's license and a satisfactory driving record.  
California Water Environment Grade II Mechanical Technologist Certificate with the ability to obtain a Grade III Certificate in 18 months, or an Associate Degree in a related field from an accredited institution.

Ability to obtain American Red Cross First Aid and Cardiopulmonary Resuscitation (CPR) certificates within 18 months of hire date.

### **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.