

IRRIGATION SPECIALIST

OVERALL JOB PURPOSE STATEMENT

Under the direction of the Grounds and Custodial Supervisor, the Irrigation Specialist maintains irrigation and water conveyance (potable or reclaimed) systems; determines optimal irrigation schedules; maintains required information for future reference and for requirements of outside agencies; ensures the completion of projects in a timely manner and according to specifications; troubleshoots and performs preventative maintenance; assembles, installs and repairs water irrigation systems; prepares designs and blueprints for irrigation systems; and operates a variety of tools and power equipment.

DISTINGUISHING CHARACTERISTICS

This job is distinguished from similar jobs by the following characteristics: The Irrigation Specialist is a journey-level trades class responsible for performing skilled irrigation duties in the maintenance and repair of water and drainage systems and the construction, installation, repair and modification of sprinkler systems.

ESSENTIAL FUNCTIONS

- Installs, maintains, diagnoses, and repairs irrigation systems and equipment.
- Records and documents a variety of activities including preventive maintenance, purchases, and inspections.
- Instructs and orients school personnel on the proper operation of systems and services.
- Researches, engineers and designs irrigation systems and equipment.
- Coordinates and monitors the work of outside contractors to ensure the completion of projects in a timely manner and according to specifications.
- Oversees and directs the performance of assigned workers to ensure the completion of projects in a timely and accurate manner.
- Operates a variety of equipment (e.g., ditchwitch, trencher, solder torch, lathe, pipe cutters).
- Operates and maintains well systems (e.g., water pressure, computer board, smart flow controller, transducer, gauges).
- Maintains supplies, equipment and tools.
- Inspects water systems and identifies repairs and/or replacement needs.
- Estimates time and material costs for specific jobs.
- Diagnoses problems and/or failures in irrigation and water conservation systems.
- Determines irrigation schedules (e.g., controllers, clocks, GPM/S) to ensure adequate irrigation, appropriate water conservation measures, and adherence to watering regulations.
- Repairs irrigation and water conveying systems (e.g., controllers/clocks, sprinkler heads, impact heads, rotors).
- Responds to emergency situations such as broken pipes, sprinklers, and drainage problems, and takes necessary action to resolve the situation.
- Assists in the performance of other job-related duties as assigned.

JOB REQUIREMENTS: MINIMUM QUALIFICATIONS

KNOWLEDGE, SKILLS AND ABILITIES

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KNOWLEDGE is required to perform mathematical computations; read technical information, complete required documents, and/or facilitate group discussions; and analyze situations to define issues and draw conclusions. Specific knowledge required to satisfactorily perform the functions of the job includes: specialized tools and methods used in the installation and repair of irrigation systems, back flow prevention, use and application of electric controllers, prevention of storm water issues, reclaimed water testing, calculating and applying hydraulic mathematical formulas, various types of pipe and their proper repair and maintenance, watering requirements for lawns, trees and plants and various types of soil; State of California certification requirements for a public school to receive water from a local water district, record-keeping techniques, and health and safety regulations.

SKILLS are required to perform multiple, highly complex, technical tasks with a need to occasionally upgrade skills in order to meet changing job conditions. Specific skills required to satisfactorily perform the functions of the job include: adhering to safety practices; operating tools and equipment used in the installation and repair of irrigation and water systems; and preparing and maintaining accurate records.

ABILITY is required to schedule a number of activities, meetings, and/or events; gather and/or collate data; and consider a wide variety of factors when using equipment. Flexibility is required to independently work with others in a wide variety of circumstances; work with data utilizing defined but different processes; and operate equipment using a variety of processes. Ability is also required to work with a significant diversity of individuals and/or groups; work with a variety of data; and utilize a wide variety of types of job-related equipment. In working with others, problem solving is required to analyze issues and create action plans. Problem solving with data frequently requires independent interpretation of guidelines; and problem solving with equipment is significant. Specific abilities required to satisfactorily perform the functions of the job include: understanding and following oral and written directions; communicating effectively with others; working cooperatively with others; analyzing situations accurately and adopting an effective course of action; meeting schedules and time lines; maintaining routine records; working independently with little direction; and reading, interpreting and following rules, regulations, policies and procedures.

RESPONSIBILITY

Responsibilities include: working under limited supervision following standardized practices and/or methods; providing information and/or advising others; and operating within a defined budget. Use of some resources from other work units is often required to perform the job's functions. There is a continual opportunity to impact the Organizations services.

WORKING ENVIRONMENT

The usual and customary methods of performing the job functions require the following physical demands:

Physical Demands Frequency Definitions Based on an 8-Hour Day:

Never = 0%

Seldom = 1-10% (<45 minutes)

Occasionally = 11-33% (up to 3 hours)

Frequently = 34-66% (up to 6 hours)

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Continuously = 67-100% (more than 6 hours)

Seldom	with assistance: lifting up to 100 lbs. at waist height and carrying up to 100 lbs. up to 20 feet (toilets, urinals, water heaters, drain cleaning machines)
Occasionally	lifting up to 75 lbs. at waist height, carrying up to 75 lbs. up to 30 feet, twisting back
Occasionally/Frequently	sitting, walking, squatting/crouching, climbing/balancing, kneeling, pushing/pulling, fingering/fine manipulation, handling/simple grasping, power/firm grasping, reach above, at, and below shoulder, hand and foot controls
Frequently	standing, stooping/bending, neck flexion/rotation, lifting up to 25 lbs. at shoulder height, carrying up to 50 lbs. up to 500 feet
Frequently/Continuously	pushing and pulling
Continuously	lifting up to 10 lbs. overhead/shoulder

AUDITORY OR VISUAL REQUIREMENTS

Auditory ability to respond to safety buzzers, communicate with coworkers and staff, operate vehicles safely, and react to emergency situations. Vision ability to see near, distant, color, depth and peripherally.

ENVIRONMENTAL CONDITIONS

Ability to operate a motor vehicle requiring a California Class C driver's license to conduct work, drive cars, trucks, forklifts or other moving equipment, work near hazardous equipment/machinery, walk on uneven ground, tolerate exposure to dust, gas, fumes, noise (required to wear ear protection), vibration, extremes in temperature and humidity, biohazard materials such as sewage; work at heights. Hazards include exposure to raw sewage.

EXPERIENCE

Three years of job-related experience performing irrigation tasks.

EDUCATION

Targeted job-related education or training that meets organization's prerequisite requirements.

REQUIRED TESTING

Pre-employment testing and assessment to demonstrate minimum qualifications required for the position.

CERTIFICATES

Valid California Class C driver's license and a record of driving history issued by the California DMV on its Form H-6 less than 30 days prior to applying for the position. Certification in reclaimed water is required. Training in electronic controllers, irrigation clock controller, water conservation and/or materials and practices of water systems is highly desirable.

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CONTINUING EDUCATION/TRAINING

Targeted job-related education and training as needed and maintenance of certifications obtained.

CLEARANCES

Criminal Justice Fingerprint/Background Clearance; TB Clearance