

## DESERT WATER



### ENGINEERING TECHNICIAN III

Operations Engineering Department

Range: 43

Salary:

**JOB DEFINITION:** Under general supervision; to perform a variety of the more difficult but sub-professional Engineering duties in the planning and installation of water, sewer and reclamation facilities; and do related work as assigned by the Operations Engineer

**SUPERVISOR:** Operations Engineer/Supervisor

**REPORTS TO:** Operations Engineer/Supervisor

#### DISTINGUISHED FROM LOWER RANGE POSITION(S):

Engineering Technician III is the third of four service planning positions; it is distinguished from the Engineering Technician I and II positions in that more extensive knowledge and experience is required. The upward mobility of an Engineering Technician is directly related to an incumbent's experience, knowledge and increased capabilities, as well as the acquisition of required water operator or distribution certification.

#### EXAMPLE OF DUTIES:

Assist developers in planning for new water, sewer and reclamation service; conducts meetings with developers to explain Agency policies, procedures and requirements for new construction; handles problems and policy questions related to design, legal documents, contracts and deposits; designs system layouts based on developers' requirements; reviews plans for domestic water, sewer, reclamation and fire protection requirements, valve locations, and pipe sizing and grades; checks and verifies material specifications; insures conformance of new construction with the water agency's general plan; determines the extent of water agency involvement in new construction and prepares cost estimates and maps for board review; supervises the work of the construction inspector and may make inspection in person to insure that all requirements are met; under the direction of the Operations Engineer, informs, trains, and cross-trains employees in matters of service related policy and procedures; coordinates project operations with other agencies; under the direction of the Operations Engineer develops and administers water quality monitoring and laboratory analysis programs; works with health officials in investigating, evaluating, and remedying possible health hazards; assist in the investigation of water quality inquiries; determines requirements for backflow protection; administers and coordinates work order control for capital improvements; analyzes pipeline failure reports and problem areas; performs project design, cost estimates and maps; assists Engineering department in preparing: construction specifications, contracts and procedures for water, sewer and reclamation systems; gathers and tabulates statistical data for the analysis of consumptive use and production of domestic and reclaimed water; conducts research and formulates reports and/or programs as related to agency studies or special project as assigned by the Operations Engineer.

#### QUALIFICATIONS:

**Schooling:** High School Diploma or G.E.D.  
State of California Health Department:

**Certifications:** Water Distribution Grade D-I and Water Treatment Grade T-I Certification

**Experience:** Three years of responsible, sub-professional engineering experience, preferably in a water-related utility;

**License(s):** Possession of a valid Class C driver's license issued by the California Department of Motor Vehicles for use of operating Agency vehicles and equipment required in the fulfillment of the job duties for this position, with an acceptable driving record.

**Knowledge:** Principles of algebra, geometry and trigonometry and their application to engineering; principles and practices in domestic water, sewer, and reclaimed distribution; techniques of surveying, drafting and construction inspection; codes, regulations, safety and health precautions relating to domestic water, sewer and reclaimed service

**Ability:** Apply the principles of algebra, geometry and trigonometry to water, sewer and reclaimed distribution; do difficult drafting and mapping; read and interpret engineering plans and specifications, legal documents and survey notes; compile clearly written technical reports; maintain complex records; establish and maintain cooperative working relationships with fellow employees, engineers and general public;

### PHYSICAL REQUIREMENTS:

**Climbing:**  yes  no **Frequency:** Continual  Often  Infrequently  Never

Examples: Going up and down ladders, getting into large vehicles, etc.

**Bending:**  yes  no **Frequency:** Continual  Often  Infrequently  Never

Examples: Performing repairs, facility installations, etc.

**Sedentary/sitting:**  yes  no **Frequency:** Continual  Often  Infrequently  Never

Examples: Driving or riding in vehicles, heavy equipment

**Standing:**  yes  no **Frequency:** Continual  Often  Infrequently  Never

Examples: Standing on carpet, pavement, dirt, concrete at work sites or in Agency facilities

**Repetitive motion:**  yes  no **Frequency:** Continual  Often  Infrequently  Never

Examples: Use of computer, writing instruments, etc.

**Respiratory (requiring use of respirator or face mask)**  yes  no

Examples: When entering reservoirs, misc. agency facilities, as appropriate

### WORK ENVIRONMENT:

Generally, work is performed indoors within the Agency Operations Center, which has a heating and air conditioning system. Within the Operations center, there is both overhead lighting and natural light from windows. There is a music/paging system which is on and operating throughout the work day. There are a number of pieces of office equipment that operate within the confines of the Engineering-Operations work areas, including, but not limited to: telephones, computers, computer printers, plotters, and calculators.

On occasion, work will be assigned outside the Agency Operations Center or at outlying Agency facilities and will take place in all weather conditions, including extreme heat in excess of 110°.

**I have reviewed this Job Description with my Supervisor and received a copy.**

\_\_\_\_\_  
Employee Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Supervisor Signature

\_\_\_\_\_  
Date

***The specific statements shown in each section of this job description are not intended to be all-inclusive. They represent typical elements and criteria necessary to successfully perform the job.***