



JOB INFORMATION

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| <i>Job Code:</i> | 180267 |
| <i>Job Title:</i> | Water Treatment Technician II |
| <i>FLSA Status:</i> | Non-Exempt |
| <i>Supervisory:</i> | May oversee student, temporary and/or resource workers.; Trains employees on specific skills and tasks as required. |
| <i>Job Family:</i> | Trades/Maintenance |
| <i>Job Family Group:</i> | Facilities Management and Construction |
| <i>Management Level:</i> | 7 Individual Contributor |

JOB SUMMARY

Provides leadership and guidance to journeymen and Water Treatment Technicians. Performs routine maintenance rounds on closed loop and open loop systems. Monitors all water cooling towers and chilled water systems in order to maintain water quality and maximize energy conservation. Inspects water level, adjusts set points, cleans probes, monitors backwash and changes filters as needed. Tests and monitors water at specific set point for proper working result. Keeps cooling towers, condensers and equipment maintained to ensure efficiency.

JOB QUALIFICATIONS:

Education

| <i>Req</i> | <i>Pref</i> | <i>Degree</i> | <i>Field of Study</i> |
|------------|-------------|--------------------------------|-----------------------|
| X | | High school or equivalent | |
| X | | Specialized/technical training | |
| | X | Related undergraduate study | |

Additional Education

Check here if experience may substitute for some of the above education.

Combined experience/education as substitute for minimum education

Work Experience

| <i>Req</i> | <i>Pref</i> | <i>Work Experience</i> | <i>Experience Level</i> |
|------------|-------------|------------------------|-------------------------|
| X | | 3 years | |

Additional Work Experience

Check here if education may substitute for some of the above work experience.

Combined experience/education as substitute for minimum work experience

Knowledge, Skills and Abilities

| <i>Req</i> | <i>Pref</i> | <i>Functional Skills</i> |
|------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------|
| X | | Experience in the maintenance of water treatment industry with cooling towers, boilers and/or water chemical testing and treatment. |

Knowledge, Skills and Abilities

| Req | Pref | Functional Skills |
|-----|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X | | Familiar with city and state building codes, OSHA rules and regulations, standard safety practices and equipment, and other requirements for workplace safety. |

Other Job Factors

JOB ACCOUNTABILITIES

| | % Time | Essential | Marginal | N/A |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----------|----------|-----|
| Performs routine maintenance on closed loop and open loop systems. Monitors all water cooling towers and chilled water systems in order to maintain water quality and maximize energy conservation. Inspects water level, adjusts set points, cleans probes, monitors backwash and changes filters as needed. Identifies technical and equipment problems. | | | | |
| Replaces and adjusts belts on all water cooling towers. Ensures tower bearings are adequately oiled and greased. Repairs makeup water valves. | | | | |
| Cleans condensers and cooling towers as scheduled or emergency request. Prepares cooling towers for cleaning and/or sanitizing. Ensures cooling towers are working at maximum efficiency. | | | | |
| Purchases parts and chemicals for cooling towers and closed loop water treatment program. Arranges for chemical deliveries with vendor to different sites on campus. | | | | |
| Cleans thermal energy storages (T.E.S.) filters as required. Performs chemical analysis. Adds chemicals to protect system metals as needed. | | | | |
| Inputs thermal energy storages (T.E.S) data in the computer for trending reports, including pictures and usage of chemicals. Downloads nightly central plant water treatment operations on a daily basis. Checks for system irregularities. Troubleshoots controller connectivity issues. | | | | |
| Tests heating and chilled water closed loop systems for proper chemical residuals. Makes additions and cleans systems as necessary. | | | | |
| Installs system components, controllers, acid injectors, pumps, solenoids, etc. Programs parameter alarms, set points and different functions with schedule for proper chemical feeding. Monitors controller output. Troubleshoots controller connectivity issues. | | | | |
| Interfaces with outside vendors for new equipment installations and repairs. | | | | |
| Communicates with Zone Maintenance department to ensure their needs are met as it pertains to chemical product placement. | | | | |
| Prepares reports and/or maintains maintenance records, as needed. | | | | |
| Trains other journeymen, Water Treatment Technicians, or other employees on specific skills and tasks, as required. Identifies additional training or defines needs for new or continuing training that would benefit staff. | | | | |
| Responds to on-call emergencies related to water treatment systems, as required. | | | | |

Other Requirements

| Essential: | Emergency Response/Recovery | Essential: | Mandated Reporter |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | In the event of an emergency, the employee holding this position is required to "report to duty" in accordance with the university's Emergency Operations Plan and/or the employee's department's emergency response and/or recovery plans. Familiarity with those plans and regular training to implement those plans is required. During or immediately following an emergency, the employee will be notified to assist in the emergency response efforts, and mobilize other staff members if needed. | | A mandated reporter who in his or her professional capacity has knowledge of, or reasonably suspects a person who is under the age of 18 years, elderly, or a dependent adult has been the victim of abuse or neglect must report the suspected incident. The reporter must contact a designated agency immediately or as soon as practically possible by telephone or in writing within 36 hours. By virtue of the associated job duties, this position qualifies as a mandated reporter as required by state law and USC's policy at: https://policy.usc.edu/mandated-reporters/ |

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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| <i>Campus Security Authority (CSA)</i> | <i>Essential:</i> |
| By virtue of the associated job duties, this position qualifies as a Campus Security Authority as required by law and USC's policy at: https://dps.usc.edu/alerts/clery/ | No |

ACKNOWLEDGMENTS

The above statements reflect the essential and non-essential functions as necessary to describe the principle contents of the job. They are not intended to be a complete statement of all work requirements or duties that may be required of the position. I understand that I may be asked to perform other duties as assigned. USC reserves the right to add or change duties at any time.

The University of Southern California is an Equal Opportunity Employer. USC prohibits discrimination on any basis protected under federal, state, or local law, regulation, or ordinance or university policies. All employment decisions are based on individual qualifications and business need.

I acknowledge receipt of this job description and its associated physical requirements. I have read and understand the job description and job requirements and agree to abide by their contents. I realize that duties may be requested of me that are not specifically stated herein. I understand that I will be expected to adjust to potential fluctuations in work volume. I understand that, if I have any questions about the essential functions or expectations of my position, my supervisor and/or HR partner are available to discuss them with me.

| | | |
|---------------------|-----------|-------|
| _____ | _____ | _____ |
| Print Employee Name | Signature | Date |
| _____ | _____ | _____ |
| Print Manager Name | Signature | Date |

This job description describes the general nature and level of work required by the position. It is not intended to be an all-inclusive list of qualifications, skills, duties, responsibilities or working conditions of the job. The job description is subject to change with or without notice, and Management reserves the right to add, modify or remove any qualification or duty. Nothing in this job description changes the existing at-will employment relationship between the university and the employee occupying the position.