



WATER REPLENISHMENT DISTRICT OF SOUTHERN CALIFORNIA
is seeking qualified candidates for the following career opportunity:

SENIOR ENGINEER

SALARY RANGE: \$109,889.11 - \$146,978.13 ANNUALLY

DEADLINE: OPEN UNTIL FILLED FIRST REVIEW OF APPLICATIONS: APRIL 12, 2019

Under direction of the Manager of Engineering, plans, manages, coordinates and evaluates assigned programs/projects within the District's Engineering department; directs, supervises, coordinates and participates in the conduct of complex projects and research/analyses for a variety of engineering, capital project and water quality programs; and performs related duties as assigned.

DISTINGUISHING CHARACTERISTICS

Senior Engineers are responsible for planning, managing, overseeing and evaluating an assigned engineering, capital project and/or water quality programs/projects, with significant importance and impact on the District's mission. Incumbents are accountable for attaining program/project results, while being actively engaged in efforts to build project support and coordinate project activities with internal and/or external stakeholders. Assignments are general and of a continuing nature, requiring the exercise of independent judgment and initiative in managing, scheduling, assigning and coordinating the work of assigned programs/projects with that of other departments and external agencies and organizations.

ESSENTIAL DUTIES AND RESPONSIBILITIES

1. Plans, manages, coordinates, oversees and evaluates assigned engineering and capital construction programs/projects; formulates overall project goals and researches, develops and implements project plans, schedules and work activities to meet goals and service objectives; obtains necessary permits and ensures project compliance with all applicable local, state and federal requirements and District rules, regulations and permits; evaluates the effectiveness of program/project activities and makes or recommends modifications; develops computer models and Senior Engineer evaluates the feasibility of existing and proposed programs/projects; monitors conformance with project budget and other requirements.
2. Directs and participates in the preparation of narrative, graphical and statistical project performance, progress and compliance monitoring reports for the District's Board, management, other governmental and regulatory agencies; prepares agendas for District committees in regard to assigned project; prepares technical papers and makes presentations at technical conferences; conducts meetings and briefings on assigned project issues.
3. Supervises and oversees the work of assigned professional, technical and support staff, consultants and contractors; prepares requests for proposals and advertises, selects and awards proposals for professional services and contracts; prepares and administers professional service agreements and consultant contracts.
4. Develops and carries out program-related research and analysis; develops research concepts, drafts research proposals and obtains necessary funding; directs and oversees the work of research staff and consultants; directs or participates in the analysis of research data and preparation of reports; presents research results to District committees, the Board and at professional conferences.
5. Coordinates and integrates project services and activities with other District departments and external agencies; develops project partnerships, where applicable, with external agencies and organizations; establishes and maintains liaison and effective working relationships with external stakeholders, other governmental and regulatory agencies and professional and technical organizations; represents the District at meetings and conferences involving District business and community matters related to assigned projects; meets with local, state and federal agencies/officials on assigned project issues.
6. Performs legislative and policy analyses of issues with potentially significant impact on assigned program/project operations and/or funding; formulates approaches and courses of action to address issues identified.

Knowledge of: Principles and practices of civil and hydraulic engineering as applied to water utility engineering; Modern methods and techniques used in the design and construction of a wide variety of waterworks capital projects, including surveying, hydraulics, mechanics and stress analysis; Principles, theories and practices of engineering, hydrology and water quality as applied to groundwater resources and availability in Southern California; Modern scientific methods and techniques used in the study and analysis of groundwater, seawater, surface water and aquifer characteristics; Modern developments, current literature and sources of information regarding engineering, water quality and water resources; Principles, practices, tools and techniques of program planning and management; Principles and practices of public administration, including budgeting, purchasing, contracting and maintenance of public records; Federal, state and local laws, regulations and court decisions applicable to assigned areas of responsibility; Principles and practices of sound business communication; Principles, practices and techniques of group process facilitation and conflict resolution; Principles and practices of effective supervision; and District human policies and procedures.

Ability to: Plan, organize, manage and direct a variety of complex program/project functions and activities to achieve program/project goals and objectives; Analyze difficult program/project and operational objectives and issues, evaluate alternatives and reach sound, logical, fact-based conclusions and recommendations; Collect, evaluate and interpret appropriate and applicable data, either in statistical, graphic or narrative form; Coordinate program/project activities with multiple stakeholders and facilitate development of partnerships; Perform complex engineering and water quality analyses using scientific methods and computer equipment; Conduct independent research studies with a high degree of scientific accuracy; Apply sound, creative problem solving techniques to resolve difficult program issues and problems; Understand, interpret, explain and apply laws, regulations, ordinances and policies applicable to program responsibilities; Understand, interpret and respond to external stakeholder needs and expectations; Prepare clear, concise and comprehensive reports, correspondence and other documents appropriate to technical and non-technical audiences; Present conclusions and recommendations clearly, logically and persuasively to both internal and external program stakeholders; Ensure the maintenance of all required files, records and documentation; and exercise independent judgment and initiative within established guidelines.

MINIMUM QUALIFICATIONS TO APPLY: Graduation from an accredited college or university with a bachelor's degree in civil engineering, hydrology or a closely related field; and eight years of professional engineering experience, including experience in engineering or water quality research; or an equivalent combination of training and experience. **LICENSES; CERTIFICATES; SPECIAL REQUIREMENTS:** Current, valid registration as a Professional Engineer from the State of California. **APPLICATION AND SELECTION PROCESS:** The first review of applications will be April 12, 2019. To be considered for this opportunity please submit a (1) District application, (2) cover letter highlighting your applicable experience and (3) resume to Brandon Mims, Manager of Administration and Human Resources, bmims@wrdd.org by the first review date. The District is an Equal Opportunity Employer.



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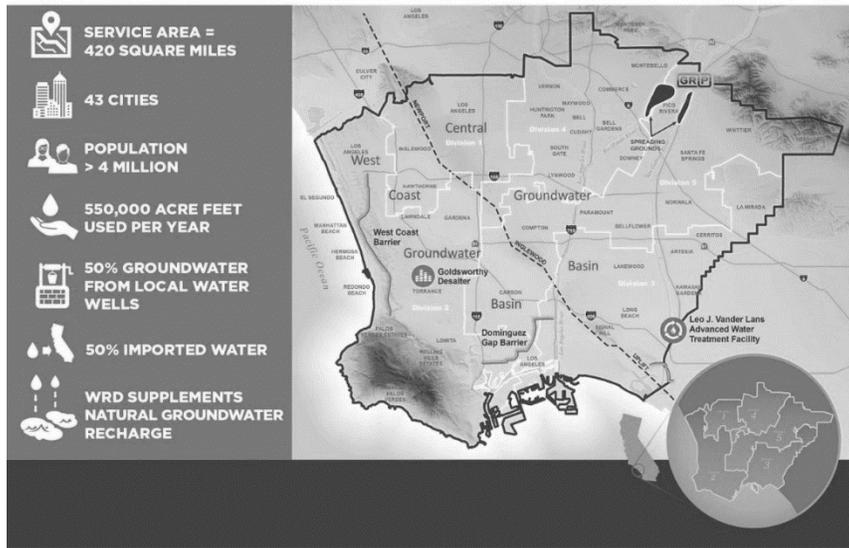
SALARY RANGE: \$109,889.11 - \$146,978.13 ANNUALLY

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The Water Replenishment District of Southern California (WRD) is the largest groundwater agency in the State of California, managing and protecting local groundwater resources for four million residents. WRD's service area covers a 420-square-mile region of southern Los Angeles County, the most populated county in the United States. The 43 cities in the service area, including a portion of the City of Los Angeles, uses about 250,000 acre-feet (82 billion gallons) of groundwater annually which accounts for approximately half of the region's water supply.



WRD SERVICE AREA IN SOUTHERN LA COUNTY



WRD ensures that a reliable supply of high-quality groundwater is available using recycled water and storm water capture. WRD is responsible for monitoring and testing groundwater throughout the region using effective management principles.

The Mission of WRD is "To provide, protect and preserve high-quality groundwater through innovative, cost-effective and environmentally sensitive basin management practices for the benefit of residents and businesses of the Central and West Coast Basins."

WRD was formed by a vote of the people in 1959 to protect the groundwater resources of the Central and West Coast Groundwater Basins. Prior to the formation of the District in 1959, unregulated and unmanaged over-pumping caused many water wells to go dry. Along the coastline, groundwater levels dropped below sea level, allowing the salty ocean water to seep into and contaminate the freshwater aquifers. Today, WRD protects the basins through artificial groundwater replenishment, ensuring that aquifers maintain healthy levels. WRD further protects the basins from seawater intrusion by injecting water into wells along the coastline to keep the ocean from further contaminating the fresh groundwater.

The major challenge to the District in more recent years has been the availability and cost of imported water for replenishment. Relatively low-cost imported water in the form of seasonal supply was a principal source of replenishment for 47 years. That water has not been readily available for the last eight years and its future availability is in doubt. The cost of uninterrupted imported supply continues to rise precipitously, making that alternative financially unattractive. As a result, WRD has revised its strategic approach to its mission in a major way. The District has adopted what is called the **Water Independence Now (WIN)** Program, whose purpose is to eliminate the use of imported water for replenishment and barrier injection. WIN is a suite of projects and programs designed to develop local supply alternatives in the form of increased recycled water and storm water capture to meet replenishment and barrier injection needs well into the future. The District anticipates completing WIN this year.

The **Albert Robles Center (ARC-AWTF)** is the cornerstone of WRD's WIN Program. The ARC project included installation of additional turnout structures to enhance operational and maintenance flexibility, which will increase recharge capacity significantly at the spreading grounds; as well as construction of a 14-MGD advanced water treatment plant. Upon completion in mid 2019, ARC will offset nearly seven billion gallons (21,000 acre-feet) of imported water, currently used to replenish the groundwater basins at the Montebello Forebay Spreading Grounds, with locally available recycled water (a combination of tertiary and advanced treated recycled water).

The District undertakes Clean Water projects to assist pumpers to treat and make productive use of contaminated water. Additionally, in 2001 the District built a significant groundwater desalter (known as "Goldsworthy Desalter") in Torrance to treat a portion of the saltwater plume that migrated inland before the seawater barriers were completed. The District recently worked with the City of Torrance to expand the Desalter's treatment capacity from 2.5 MGD to 5.0 MGD. Recent studies indicate that the saline plume is approximately 600,000 acre-feet in volume, presenting a significant water quality challenge and supply opportunity. A feasibility study is currently underway to potentially remediate and reuse all of this brackish groundwater. And, in 2013 and 2014, the courts approved amendments to the adjudications for the Central and West Coast Basins, setting forth a legal framework to store up to 450,000 acre-feet of water in the groundwater basins to help drought-proof the region. WRD was made the Administrative Body of Watermaster as part of the judgment amendments.