

JOB DESCRIPTION AND POSITION CLASSIFICATION

CLASSIFICATION Senior Engineer, Water Resources		DWR POSITION NUMBER 1890-3261-006	SAP POSITION NUMBER 50050911	MCR 1
APPOINTEE Vacant		SAP PERSONNEL NO.	DIVISION/SECTION DOP/Data & Decision Support/Water Accounting	
COLLECTIVE BARGAINING IDENTIFIER Management Related BU: ☐ Supervisory Related BU: ☒ Confidential Related BU: ☐ Rank and File BU: ☐ E48				
RESPONSIBILITIES EXERCISED ☐ Supervisory ☐ Lead Person		IMMEDIATE SUPERVISOR (Print) Abdul Khan	SUPERVISOR'S CLASSIFICATION Supervising Engineer, Water Resources	
APPROVED BY (Personnel Analyst's Name) S. Meeks			DATE 8/17/26	
<i>Percent of Time</i>	<i>Activity</i>			
45%	POSITION SUMMARY Under the general direction of the Supervising Engineer, Water Resources, Water Accounting Section, Data and Decision Support Branch, the Senior Engineer, Water Resources (Specialist) conducts complex engineering and planning analyses related to the development, modernization, and application of water budget and accounting; organizes and manages statewide water planning data by improving data consistency, accessibility, accuracy, and usefulness; aligns data with the needs of department programs, partner agencies, interested parties, and California Water Plan end users; assists in conducting scenario-based modeling and planning analyses to assess water supply gaps and vulnerabilities; and serves as a lead to Region Office staff in a matrix environment on procedures necessary to support statewide water planning activities. ESSENTIAL FUNCTIONS This position requires extensive coordination with Region Offices, Division and Executive staff, other State and federal agencies, academia, and external partners, which requires strong written and oral communication skills. The incumbent must be innovative and identify new and alternative ways to achieve intended program outcomes in response to changes, including modernization of water budget and accounting. The specific duties include but are not limited to: Engineering and Planning Studies - Formulate and implement complex engineering and planning studies required for the California Water Plan. Conduct advanced engineering analyses of hydrologic conditions and lead the development, modernization, application, and interpretation of regional and statewide water budget and accounting. Evaluate and improve data workflows and data reporting processes, and integrate emerging water accounting frameworks and tailor water data products to programs and Water Plan end-user needs. Evaluate opportunities to streamline water agency data reporting requirements and make the information in those reports more useful to the department and other State agencies. Formulate projections of land use, population growth, water use, and water management and conservation opportunities. Lead the development of process maps, flowcharts, and tools for visualizing and communicating water planning data in ways that are clear, accessible, and useful to Department of Water Resources (DWR) programs,			
SUPERVISOR'S STATEMENT: I HAVE DISCUSSED THE DUTIES OF THE POSITION WITH THE EMPLOYEE.				
SUPERVISOR'S NAME (Print)		SUPERVISOR'S SIGNATURE ➤		DATE
EMPLOYEE'S STATEMENT: I HAVE DISCUSSED WITH MY SUPERVISOR THE DUTIES OF THE POSITION AND HAVE RECEIVED A COPY OF THE DUTY STATEMENT.				
EMPLOYEE'S NAME (Print)		EMPLOYEE'S SIGNATURE ➤		DATE

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45% (cont'd)	partner agencies, Region Offices, modelers, planners, and other Water Plan end users. Prepare evaluation criteria and other technical components of the California Water Plan. Develop and implement integrated, scenario-based planning analyses using hydrologic and hydraulic models, including Water Evaluation and Adaptation Planning (WEAP) model, to quantify California's future water supply gaps and vulnerabilities under a range of plausible future climate, population, land use, and regulatory conditions. Identify and assess cost-effective portfolios of place-based and regional adaptation strategies to reduce projected water supply gaps and improve system resilience.			
25%	Technical Review and Quality Assurance - Perform technical review of Region Office staff water budget and accounting datasets and studies for completeness, consistency, and accuracy, for use in the development of California Water Plan and related statewide planning efforts. Develop and implement quality assurance and quality control (QA/QC) procedures for work performed by department staff and other agencies that support the modernization and management of statewide water planning data. Document and summarize the results of completed studies.			
20%	Report Coordination and Review - Provide high-level technical review and coordination for the preparation of the California Water Plan. Support the preparation of reports and documentation related to regional and statewide water budget and accounting, future water supply gaps and vulnerabilities, and adaptation strategies to enhance water resilience.			
10%	Communication, Outreach, and Program Support - Respond to correspondence and verbal inquiries on statewide water planning programs from the general public and from local, State, and federal agencies. Present work at meetings, workshops, and conferences, as directed. Support communication and coordination with DWR programs, including the Sustainable Groundwater Management Office, State Water Project programs, Executive staff, as well as academia and other interested parties on statewide water data and modernization priorities. Prepare budget documents, assist with program budget development, review expenditures in SAP, and evaluate funding needs to sustain program's core analytical capabilities and statewide water data modernization. Act in the absence of the Section Manager, as required. SPECIAL REQUIREMENTS: All employees are responsible for contributing to an inclusive, safe, and secure work environment that values diverse cultures, perspectives, and experiences, and is free from discrimination. The Department of Water Resources is committed to its mission and employees, and we are grounded in our commitment to public safety. Regular, consistent, and predictable attendance is essential to the successful performance in this position.			