

JOB DESCRIPTION AND POSITION CLASSIFICATION

CLASSIFICATION Senior Engineer, Water Resources (Specialist)		DWR POSITION NUMBER 2062-3261-003	SAP POSITION NUMBER 50000894	MCR 1
APPOINTEE Vacant		SAP PERSONNEL NO. TBD	DIVISION/SECTION O&M/ADMWM/Real Water Determination Unit	
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) Andy Chu	SUPERVISOR'S CLASSIFICATION Supervising Engineer, Water Resources	
APPROVED BY (Personnel Analyst's Name) Taylor Marshall			DATE 8/4/2026	
<i>Percent of Time</i>	<i>Activity</i>			
45%	POSITION SUMMARY: Under the general direction of the Transfer and Real Water Section Manager, the incumbent will be responsible for complex duties associated with performing real water determination to ensure a water transfer and Healthy River and Landscape (HRL) program facilitated by DWR State Water Project (SWP) would not result in injury to legal water users, calculation of water budget, coordination with other DWR divisions and federal/local agencies on . ESSENTIAL FUNCTIONS: This position requires the incumbent to act independently and function as a competent lead person and representative to perform and review complex consumptive use, water budget, water accounting, environmental, and water transfer related calculations and evaluations and present results in precise and understandable manner. This position also requires excellent verbal and written communications skills, analytical and database skills. The incumbent will establish and maintain cooperative relations internally and externally to conduct engineering field studies and programs related to water use and management for farming and water conservation; analyze projects with potential effects on SWP operations; and negotiate, review, and develop agreements and engineering reports. The duties include, but are not limited to the following: Perform complex scientific/engineering analyses on applied water, consumptive use, and water budget using diversion records, evapotranspiration, remote sensing, surface and underground storage, farming practices, and other water uses information; conduct and review modeling for surface water and groundwater interaction; quantify water use reduction from a proposed conservation measure; review and investigate interconnectedness of water rights, water uses, and water supply; identify and determine any potential injury from proposed water transfers/exchanges; and evaluate and outline water transfer/exchange effects on, including but not limited to, economic efficiency, external social costs, environment, and water quality impacts. Make technical recommendations and findings to DWR management in support of protecting the interest of SWP operations and water rights and coordinate review among both Federal and other State Agencies.			
SUPERVISOR'S STATEMENT: I HAVE DISCUSSED THE DUTIES OF THE POSITION WITH THE EMPLOYEE.				
SUPERVISOR'S NAME (Print) Andy Chu		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) Vacant		EMPLOYEE'S SIGNATURE ➤		DATE

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APPOINTEE		SAP PERSONNEL NO.	DIVISION/SECTION		
Vacant		TBD	O&M/ADMWM/Real Water Determination Unit		
Percent of Time	Activity				
30%	Review temporary (one year or less) and long-term water transfer proposals, conduct various technical analyses pursuant applicable statutes, contracts, agreements, licenses, permits, and DWR policy. These technical analyses include, but are not limited to, conjunctive uses in agricultural and urban settings; groundwater investigations; soils, geologic, and engineering data collection and evaluation; reservoir operations evaluation; mitigation measures evaluation and development; and satellite imaging post-processing. Tools for these technical analyses include, but are not limited to, Integrated Water Flow Model (IWFM), CalSim, Delta Simulation Model II (DSM2), ArcGIS, and Tableau.				
15%	Collect and analysis water use information to support annual water right reporting. Evaluate information from historical water reports of other water right holders. Investigate water rights issues and evaluate SWP activities related to compliance with terms and conditions in water rights decisions and orders, stipulated agreements, and court decree. Prepare petitions and related documentation to SWRCB in support of SWP operations and exchanges.				
10%	Prepare annual budgets, scope of work, program component statement (PCS), resources agreements (Form 9669), task orders, contracts preparation, and funding documents. Provide the Program Manager with monthly expenditure and remaining budget reports on each resources agreement. As requested, act on behalf of the Program Manager, in absence of the Program Manager. May be required to operate a vehicle on public roadways. SPECIAL REQUIREMENTS: This position requires the incumbent to occasionally travel by airplane, vehicle and/or other forms of transportation to different areas or field locations in California, with occasional overnight stay or overnight travel to attend meetings, conferences, training, or project work sites. Must have ability to speak at large meetings or in public setting on occasion. 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. Employee is required to successfully complete all safety training related to the functions of the job. Must possess a valid certificate of registration as a Civil Engineer issued by the California State Board of Registration for Professional Engineers. 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.				

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	KNOWLEDGE, SKILLS, AND ABILITIES: Incumbent must be highly organized and have the ability to manage multiple tasks while balancing the needs of the Unit and outside agencies and organizations. Incumbent must have the ability to handle urgent or contentious situations and act independently but seek guidance from management when necessary. Must work well with others and possess good oral and written communication skills. Must be industrious and have the ability to understand and evaluate technical engineering terms and contract terminology and present them to others. Must have the ability to utilize Microsoft Office, Outlook, Teams, Word, Excel, PowerPoint, Access, Power BI, and Project in daily work and have ability to use or learn Adobe Acrobat, DocuSign, SAP, ArcGIS, Google Earth, and Visio. OTHER RESPONSIBILITIES This position provides necessary support to the Divisions of Flood Management, Safety of Dams, Operations and Maintenance, Engineering, and/or the Public Affairs Office during Governor declared emergencies, flood, dam, SWP, and other incidents and emergencies. Additionally this position may participate in emergency operations in the capacity of area teams, field inspection, coordination, and assist agencies such as Cal OES and FEMA in disaster work, including performing fieldwork to complete damage survey reports for droughts, flooding, earthquakes, and other emergencies. This position may also serve in one of the sections as established in the Incident Command System to assist the Department in performing its emergency preparedness, response, recovery, and mitigation functions. These functions are established in the California State Emergency Plan and the Department's Administrative Orders.			