

JOB DESCRIPTION AND POSITION CLASSIFICATION

CLASSIFICATION Senior Engineer, Water Resources		DWR POSITION NUMBER 1491-3261-509	SAP POSITION NUMBER 50027524	MCR 1
APPOINTEE Vacant		SAP PERSONNEL NO. TBD	DIVISION/SECTION DFO/Technical Assistance Unit	
COLLECTIVE BARGAINING IDENTIFIER Management Related BU: <input type="checkbox"/> Supervisory Related BU: <input checked="" type="checkbox"/> Confidential Related BU: <input type="checkbox"/> Rank and File BU: <input type="checkbox"/> S09				
RESPONSIBILITIES EXERCISED <input checked="" type="checkbox"/> Supervisory <input type="checkbox"/> Lead Person		IMMEDIATE SUPERVISOR (Print) MD Haque	SUPERVISOR'S CLASSIFICATION Supervising Engineer, Water Resources	
APPROVED BY (Personnel Analyst's Name) Sydney Mecke			DATE 5/22/26	
<i>Percent of Time</i>	<i>Activity</i>			
	<p>POSITION SUMMARY</p> <p>Under general direction of the Risk Assessment and Mapping Section (RAMS) Manager, the Senior Engineer, Water Resources, serves as a supervisor and technical lead of the Technical Assistance Unit (TAU), overseeing a team of engineers responsible for delivering statewide flood risk assessment, hazard mapping, and technical assistance services.</p> <p>The position provides strategic direction, technical oversight, and program management for complex floodplain analyses across coastal, riverine, alluvial fan, and Delta environments. Key responsibilities include advancing initiatives such as coastal flood hazard analysis and mapping, development of Delta-specific technical methodologies, alluvial fan floodplain evaluation and delineation, Federal Emergency Management Agency (FEMA) Hazard Mitigation Assistance (HMA) support, and technical contributions to the Central Valley Flood Protection Plan (CVFPP).</p> <p>The incumbent coordinates across Risk Assessment and Mapping Section (RAMS), Floodplain Management Branch (FPMB), Division of Flood Operations (DFO), the Department of Water Resources (DWR) divisions and external partners, TAU to ensure consistency, quality, and applicability of technical products supporting statewide flood risk management.</p> <p>ESSENTIAL FUNCTIONS</p> <p>This position requires the incumbent work cooperatively with a wide variety of DWR specialists; staff of local, State, and federal agencies; technical consultants; stakeholders; and the general public; maintain regular, consistent, and predictable attendance; possess good oral and written communication skills; and exercise initiative and good judgment. The specific essential duties are, but are not limited to, the following:</p>			
SUPERVISOR'S STATEMENT: I HAVE DISCUSSED THE DUTIES OF THE POSITION WITH THE EMPLOYEE.				
SUPERVISOR'S NAME (Print) MD Haque		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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40%	<p>Lead development and implementation of TAU's annual and long-term (five-year) work plans, including resource planning, workload management, and performance tracking. Provide technical direction and oversight for statewide flood risk assessment and mapping efforts across coastal, riverine, alluvial fan, and Delta floodplain systems. This may include but not limited to coastal flood hazard evaluation and mapping studies, delta specific studies, Alluvial fan delineation studies, watershed studies, FEMA hazard mitigation assistance grant program studies and central valley and statewide hydrologic and hydraulic model development and application efforts for advancing floodplain risk assessment goals of the section, branch, division and the department.</p> <p>Establish and maintain technical standards, methodologies, and quality control processes for modeling, mapping, and risk assessment products to support statewide consistency and scalability.</p> <p>Coordinate with State and federal agencies including FEMA, Governor's Office of Emergency Services (CalOES), United States Geological Survey (USGS), National Oceanic and Atmospheric Administration (NOAA), California Geological Survey (CGS) and provide technical oversight of floodplain studies, hazard mitigation analyses, and mapping products. Support dam inundation map review and public dissemination efforts in support of Division of Safety of Dams (DSOD).</p> <p>Collaborate with staff in RAMS, FPMB, Hydrology and Flood Operations Branch, Flood Maintenance and Operations Branch, and other DWR divisions to align technical approaches, share data and tools, and ensure integration across programs.</p> <p>Provide leadership and direction to a multidisciplinary team of engineers, fostering a collaborative, high-performing work environment focused on technical excellence, innovation, and professional development.</p>		
25%	<p>Development reports, and control the staff and activities of TAU in order to develop and maintain a highly-skilled professional staff to meet DWR's mission through assigning and distributing work, monitoring and evaluating performance, preparing annual Appraisal and Development reports, determining training needs and approving training requests, implementing the three phases of progressive discipline, verifying and approving employee attendance and leave requests, interviewing and hiring qualified employees, understanding employees' rights with regards to labor relations, and leading by example.</p>		
25%	<p>Translate complex technical analysis into clear, actionable information to support decision-making across RAMS, FPMB, DFO and DWR divisions, and with external partners. Coordinate and integrate project work within DFO, DWR, and across Flood Management and Dam Safety Programs to ensure alignment, consistency, and effective delivery of technical studies.</p>		

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5%	<p>Support statewide flood risk communication and awareness efforts by developing agendas, presentations, technical memoranda, and supporting materials; responding to inquiries and facilitating outreach meetings with public and partner agencies. Represent DWR in engagements with federal, State, Federal, regional, and local agencies, and effectively communicate flood risk information and technical study results to diverse audiences.</p> <p>Coordinate with floodplain management programs; including community assistance and risk awareness initiatives, statewide grant programs, local floodplain management agencies, to provide data, tools, and technical guidance supporting floodplain risk and analyses and mapping. Provide technical support to regional and local agencies preparing flood hazard mitigation planning studies; direct review of final products and determine adequacy based on State and federal technical guidelines.</p> <p>Evaluate and provide recommendations on multi-objective structural and non-structural flood risk management strategies, ensuring technical soundness and alignment with statewide flood risk reduction goals.</p>		
5%	<p>Align available funding with the organizational priorities and technical services needs to support delivery of risk assessment and mapping efforts. Oversee program funding allocations and track expenditures to ensure accountability and effective use of resources.</p> <p>Support development and management of consultant contracts for modeling, mapping, and technical analysis efforts, including preparation of task orders, and coordination of budgets, schedules, and scopes of work. Monitor consultant performance and deliverables to ensure alignment with program objectives and technical standards.</p>		
	<p>Coordinate and align efforts across partnering agencies, programs and projects, including federal agencies, local implementing agencies, regulatory entities, land use authorities and water management agencies. Ensure effective collaboration and integration of technical efforts by recognizing and accounting for the roles, responsibilities, and authorities of each partner during program implementation. This may require driving on the state highways to attend in person meetings, conferences and forums at various locations within the state.</p>		
	<p>OTHER RESPONSIBILITIES</p> <p>This position provides necessary support to the Divisions of Flood Operations, Safety of Dams, Operations and Maintenance, Engineering, and/or the Public Affairs Office during Governor declared emergencies, flood, dam, State Water Project, 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 the Governor's Office of Emergency Services (Cal OES) and FEMA in disaster work, including performing fieldwork to complete damage survey reports for droughts, flooding, earthquakes, and other emergencies.</p>		

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	<p>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.</p> <p>SPECIAL REQUIREMENTS</p> <p>A valid California driver's license is required in performance of these duties. Infrequent travel may be required. May be required to work evenings, nights, weekends, or holidays during emergencies for which Cal OES tasks the Department to assist.</p> <p>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.</p> <p>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.</p>		