

JOB DESCRIPTION AND POSITION CLASSIFICATION

CLASSIFICATION Engineer, Water Resources		DWR POSITION NUMBER 3420-3137-XXX	SAP POSITION NUMBER 50002893	MCR 1
APPOINTEE Vacant		SAP PERSONNEL NO. TBD	DIVISION/SECTION DOE/Design/SEB/Structures I	
COLLECTIVE BARGAINING IDENTIFIER				
<input type="checkbox"/> Management Related BU:	<input type="checkbox"/> Supervisory Related BU:	<input type="checkbox"/> Confidential Related BU:	<input checked="" type="checkbox"/> Rank and File BU: R09	
RESPONSIBILITIES EXERCISED <input type="checkbox"/> Supervisory <input type="checkbox"/> Lead Person		IMMEDIATE SUPERVISOR (Print) Cameron Best	SUPERVISOR'S CLASSIFICATION Senior Engineer, Water Resources	
APPROVED BY (Personnel Analyst's Name) Estevez Contreras			DATE 05/05/2026	
<i>Percent of Time</i>	<i>Activity</i>			
	<p>POSITION SUMMARY Under the direction of a Senior Engineer, Water Resources, provides structural engineering support for a wide variety of State Water Project (SWP) facilities, including analysis and design of buildings, bridges, spillways, hydraulic structures, radial gates, intakes and miscellaneous water-related facilities, as well as prepares designs for modifications to existing facilities. The scope of responsibilities involves a strong working knowledge of structural engineering; design of structures, including reinforced concrete and masonry, structural steel, and timber; hydraulics; soils and soil mechanics; applicable design and building codes; and computer applications for design.</p> <p>ESSENTIAL FUNCTIONS This position requires that the incumbent work cooperatively and communicate with others and maintain consistent and regular attendance, as well as the ability to utilize personal computers to perform engineering computations and preliminary layouts of designs; prepare clear and concise engineering reports; act as lead person and effectively direct the work of others.</p>			
40%	Prepare structural designs using modern engineering computer applications to perform calculations such as finite element, dynamic, and time history analyses, as well as traditional hand calculation methods. Coordinate design work with other disciplines such as civil, mechanical, electrical, geotechnical, architectural, environmental, hydraulics, surveying, and consultants.			
20%	Prepare plans and details for contract drawings by using computer-aided drafting (CAD) and hand-drafted sketches, compile quantity estimates, make cost comparisons of design alternatives, and assist in the preparation of specifications.			
20%	Perform engineering studies involving existing and proposed SWP facilities and assist with the preparation of engineering reports to document the results. Prepare engineering reports and memorandum regarding design criteria and other design and construction considerations. Use word processing software, spreadsheets, and reference materials appropriate for the tasks.			
SUPERVISOR'S STATEMENT: I HAVE DISCUSSED THE DUTIES OF THE POSITION WITH THE EMPLOYEE.				
SUPERVISOR'S NAME (Print) Cameron Best		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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<i>Percent of Time</i>	<i>Activity</i>		
15%	<p>Review shop drawings and other contractor submittals related to in-progress construction. Coordinate with construction staff to resolve changes and evaluate construction conditions relative to design intent. Make field trips as necessary to investigate and resolve problems arising during construction, which may require driving a vehicle on public roadways. Attend job-required and job-related safety, skill, and educational training courses as necessary.</p>		
5%	<p>Perform field observations of existing or proposed facilities including building structures, bridges, civil infrastructure, hydraulic structures, tunnels, pipelines, and other enclosed areas, often in uneven remote uneven terrain. Accessing these sites may involve driving a pick-up truck off-road to and from the job sites, possibly on rugged terrain.</p> <p>OTHER RESPONSIBILITES This position provides necessary support to the Divisions of Flood Operations, Safety of Dams, Operations and Maintenance, Integrated Science and Engineering, and/or the Public Affairs Office during governor declared emergencies, or other incidents and emergencies concerning floods, dams, SWP, and other infrastructure. Additionally, this position may participate in emergency operations in the capacity of area teams, field inspection, coordination, and assist agencies such as CalOES 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, recover, and mitigation functions. These functions are established in the California State Emergency Plan and the Department's Administrative Orders.</p> <p>DIVERSITY, EQUITY AND INCLUSION 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>SPECIAL REQUIREMENTS Must possess a valid California driver's license when conducting State business that requires driving a vehicle. May be required to travel on public roadways including traveling to remote areas. Travel on short notice and overnight lodging will be required on some trips.</p> <p>Those placed into Range D of this classification must maintain an active certificate of registration as a Civil Engineer issued by the California State Board of Registration for Professional Engineers.</p> <p>The Department of Water Resources (DWR) 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>		