

JOB DESCRIPTION AND POSITION CLASSIFICATION

CLASSIFICATION Engineer, Water Resources		DWR POSITION NUMBER 3460-3137-XXX	SAP POSITION NUMBER 50032147	MCR 1
APPOINTEE Vacant		SAP PERSONNEL NO. TBD	DIVISION/SECTION DOE / Design / CEB / Civil I	
COLLECTIVE BARGAINING IDENTIFIER 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) Dagnachew Fanta	SUPERVISOR'S CLASSIFICATION Senior Engineer, WR	
APPROVED BY (Personnel Analyst's Name) Estevez Contreras			DATE 06/18/2025	
<i>Percent of Time</i>	<i>Activity</i>			
40%	<p>POSITION SUMMARY Under the direction of a Senior Engineer, Water Resources, the incumbent performs engineering studies, writes reports, and prepares the designs, drawings, and specifications for construction of a variety of public civil-works projects related to flood control, environmental protection, water conveyance facilities, species conservation, and recreation. Such work will include the design and analysis of site drainage, canals, check structures, levees, storm and sanitary sewer systems, gates, weirs, siphons, pipelines, penstocks, turnouts, roads, culverts, spillways, retaining walls, fish screens, fish ladders, pump houses, site accessibility, and many other related facilities. The incumbent must provide a broad working knowledge of civil design, reinforced concrete design, structural steel design, masonry design, hydrology and hydraulics, soils and rock mechanics, applicable design and building codes, and engineering analysis computer applications.</p> <p>ESSENTIAL FUNCTIONS This position requires that the incumbent work cooperatively on multi-disciplinary teams as well as independently. The incumbent must maintain consistent and regular attendance, exercise sound engineering judgment, possess good time management skills, and be responsible for completing work assignments on time. The incumbent must have an excellent attention to detail and must be able to present calculations and study results in a clear and logical manner. The incumbent must have the ability to create a set of engineering drawings utilizing CAD applications. Excellent communication skills, both oral and written are required. The incumbent may be required to work on several projects simultaneously. The specific essential duties are:</p> <p>Prepares civil engineering calculations for design and analysis utilizing engineering applications such as HEC-RAS, SAP2000, RISA, Mathcad, Slope/W, LPILE, Microstation/OpenRoads (or AutoCAD as directed), ArcGIS, and others as needed. Prepares sketches, plans, and details for contract drawings working alone or with a drafter as directed. Writes, reviews, and edits engineering specifications. Calculates quantity estimates and makes cost comparisons of design alternatives. Perform evaluations and analyze demand and capacity of existing and proposed facilities and their components.</p>			
SUPERVISOR'S STATEMENT: I HAVE DISCUSSED THE DUTIES OF THE POSITION WITH THE EMPLOYEE.				
SUPERVISOR'S NAME (Print) Dagnachew Fanta		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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Percent of Time	Activity			
30%	Performs civil engineering studies and calculations of existing and proposed facilities. Prepare engineering reports, drawings, figures, memorandum, and visual presentations explaining the results of the studies to staff, management, consultants, and contractors utilizing word processing software, spreadsheets, CAD, ArcGIS, and reference materials appropriate for the tasks. Research engineering records and perform special studies related to engineering.			
20%	Prepare written responses to a wide variety of inquiries and requests regarding project designs and studies. Coordinate and communicating design activities with other project participants, clients, and stakeholders. Answer and respond to inquiries, contractor requests for information, and questions from construction inspectors. Review reports and provide technical comments on plans and specifications. Direct the work of others such as drafters, students, and consultants. Review shop drawings and other contractor submittals related to in-progress construction. Provide quality-assurance reviews of design work.			
10%	Perform field inspection of existing or proposed facilities. Perform inspections of slopes, embankments, tunnels, pipelines, building structures, hydraulic structures and other enclosed areas, often in uneven rugged terrain. May involve driving a pick-up truck off road or on levees to and from job sites.			
	<p>OTHER RESPONSIBILITIES</p> <p>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 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</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>			

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		<p>SPECIAL REQUIREMENTS</p> <p>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>Range D of this classification requires possession of a valid certificate of registration as a civil engineer issued by the California State Board of Registration for Professional Engineers.</p> <p>Employee is supervised through frequent contact and guidance of a Senior Engineer, with less frequent contact and assistance as employee becomes familiar with assignments.</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>					