

JOB DESCRIPTION AND POSITION CLASSIFICATION

CLASSIFICATION Senior Engineer Water Resources		DWR POSITION NUMBER 840-380-3261-500	SAP POSITION NUMBER 50012603	MCR 1
APPOINTEE Vacant		SAP PERSONNEL NO.	DIVISION/SECTION DISE/ Engineering: Planning & Implementation	
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"/> 09				
RESPONSIBILITIES EXERCISED <input checked="" type="checkbox"/> Supervisory <input type="checkbox"/> Lead Person		IMMEDIATE SUPERVISOR (Print) Elizabeth Vasquez	SUPERVISOR'S CLASSIFICATION Environmental Program Manager I (Sup)	
APPROVED BY (Personnel Analyst's Name) Jennifer Greathouse			DATE 1-5-26	
<i>Percent of Time</i>	<i>Activity</i>			
25%	<p>POSITION SUMMARY Under the general direction of the Riverine Habitat Restoration Section Manager, the incumbent supervises the Engineering, Planning and Implementation Unit and Manage contracts and budgets, plans, and implements projects and operation and maintenance tasks that meet State Water Project (SWP) regulatory requirements and salmon fishery goals. This position supports work to restore floodplains and improve fish passage primarily in the Yolo Bypass.</p> <p>ESSENTIAL FUNCTIONS This position requires the incumbent to plan, organize, lead, and control engineering tasks, focused on project planning, implementation, operations, and maintenance tasks. The incumbent must lead and work effectively with diverse multidisciplinary teams. The incumbent must follow Department of Water Resources (DWR) policies, including safety policies and procedures. The specific essential duties are:</p> <p>Planning and Organizing: Establish engineering and related objectives, in cooperation with other public and private entities, to develop, operate, and maintain water infrastructure projects to support enhancement of habitat for salmon, steelhead, and sturgeon. Develop and evaluate multiple pathways to achieve project objectives. With guidance from management, fisheries biologists and environmental compliance specialists, incorporate complex scientific analyses into decision making to select the best course of action to optimize project performance and achieve project objectives.</p> <p>For each project and facility and in coordination with management, develop a functional organizational structure to coordinate tasks effectively. Efficiently match the organizational structures to the magnitude and complexity of the needed work. Allocate responsibilities of tasks to unit staff and those who work outside the unit. Typical tasks include engineering to support design development and implementation of fish passage and habitat restoration projects and to ensure ongoing operation and maintenance of existing operable facilities.</p>			
SUPERVISOR'S STATEMENT: I HAVE DISCUSSED THE DUTIES OF THE POSITION WITH THE EMPLOYEE.				
SUPERVISOR'S NAME (Print) Elizabeth Vasquez		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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25%	<p>Leading and Supervising: Approach work responsibilities in a manner that motivates staff to do their best. Undertake assignments with a positive and professional demeanor. Support professional development of staff. Create opportunities for mentoring and cross-training during assignment of tasks. Monitor and evaluate performance and prepare annual reports. Regularly compare actual performance to performance standards and communicate when performance is above or below the set standard.</p> <p>Determine training needs and approve training requests. Verify and approve staff attendance and leave requests. Interview and hire qualified employees. Understand employee's rights with regards to labor relations.</p> <p>Promote a culture reflective of DWR's core values. This includes policies DWR has set for safety and for diversity, equity, and inclusion. Require staff to perform job hazard analysis and tailgate safety meetings prior to fieldwork. Ensure staff have adequate safety equipment for the work to be performed.</p> <p>Establish clear standards for work performance. These standards need to be consistent with the high technical ability necessary to deliver engineering products for complex environmental challenges. Forecast future needs for technical ability and ensure staff are sufficiently trained to meet those needs.</p>				
20%	<p>Project Management: Oversee and provide guidance to others who plan, schedule, and coordinate the operations and maintenance of fish facilities in the Yolo Bypass. Tasks should be conducted consistent with project management principles to track schedule, cost, and value such that potential risks can be identified early and managed effectively. Develop agreements with DWR and external partners to support completing work tasks.</p> <p>Manage contracts and agreements to ensure project delivery meets the required objectives and specifications described in the contract or agreement. To ensure project delivery is on time and within budget, the best available information is used to develop agreements and contracts, projects tracking occurs regularly, and risks are quickly identified and addressed.</p> <p>Ensures that work is done such that facilities meet performance goals and are maintained in good working order. Coordinate with internal and external partners and interests to communicate, as appropriate, operation and maintenance goals, work status, and to solve technical challenges.</p> <p>Facilitate meetings with design team members, regulatory agencies, and others with an interest in the project to communicate project status, iterate designs, and solve technical challenges associated with project implementation.</p>				

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20%	<p>Controlling: Review and oversee the preparation of the following civil engineering tasks: engineering calculations, quantity estimates, cost comparisons of design alternatives, technical reports, contract drawings and specifications using CAD applications (AutoCAD Civil 3D/Microstation OpenRoads) and engineering applications such as HEC-RAS 2D, Slope/W, Seep/W, LPILE, and ArcGIS.</p> <p>Resolves challenges with internal and external partners and interests that arise when construction or extraordinary conditions require design or adaptive management changes. Ensures that with any changes to operations or implementation of a new construction project, the existing operable Yolo Bypass fish facilities continue to meet performance goals consistent with SWP safety and fishery objectives.</p> <p>Review and oversee hydraulic modeling of rivers, bypasses, channels, weirs, gates, fishways, and floodplains using HEC-RAS 2D, TUFLOW, RMA2, FLO-2D, MIKE-21 or SRH-2D to support the design of restoration project alternatives.</p>			
10%	<p>Consulting & Outreach: Participate in inter-agency technical teams such as the Yolo Bypass Fisheries and Engineering Technical Team and the Coordinated Operations Planning.</p> <p>Respond to inquiries regarding the results of engineering studies completed, design decisions, construction considerations, and other work performed for existing and proposed restoration projects.</p> <p>SPECIAL REQUIREMENTS This position requires possession of a valid certificate registration as a civil engineer issued by the California State Board of Registration for Professional Engineers.</p> <p>Must possess a valid California Driver License to drive to various sites and attend meetings.</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>			