

JOB DESCRIPTION AND POSITION CLASSIFICATION

CLASSIFICATION Environmental Scientist		DWR POSITION NUMBER 840-355-0762-002	SAP POSITION NUMBER 50000416	MCR 1
APPOINTEE Vacant		SAP PERSONNEL NO. TBD	DIVISION/SECTION DISE/ EMRR/ CES	
COLLECTIVE BARGAINING IDENTIFIER Management Related BU: ☐ Supervisory Related BU: ☐ Confidential Related BU: ☒ Rank and File BU: 10				
RESPONSIBILITIES EXERCISED ☐ Supervisory ☐ Lead Person		IMMEDIATE SUPERVISOR (Print) Sarah Brown	SUPERVISOR'S CLASSIFICATION Senior Environmental Scientist (Sup)	
APPROVED BY (Personnel Analyst's Name) Jennifer Greathouse			DATE 8-27-26	
<i>Percent of Time</i>	<i>Activity</i>			
	POSITION SUMMARY Under the general direction of the Collaborative Ecological Studies (CES) Unit Manager, the incumbent will conduct genetic monitoring and molecular ecological studies for water management decision-making within the San Francisco Estuary. In this capacity, the incumbent is responsible for genetic sample processing, data collection, field activities, analysis, and reporting of applied genetic studies that are responsive to the research needs identified within the Incidental Take Permit (ITP), Biological Opinions (BiOps), and water rights decisions. As part of the Interagency Ecological Program (IEP) and the DWR Collaborative Science & Innovation (CSI) section, the incumbent will prioritize the use of innovative technology and collaborative partnerships to advance DWR's efforts to have scientific evidence drive policy and management decision-making critical to the State's water supply operation and planning.			
45%	ESSENTIAL FUNCTIONS This position requires the incumbent to work cooperatively with others, maintain consistent and predictable attendance, exercise good judgment, and follow DWR policies and procedures. The duties of this position require technical skills in genetics and aquatic ecology, excellent verbal and written communication skills, the ability to work collaboratively with diverse groups, and knowledge of State, federal, and local environmental laws and regulations. Travel to meetings or project sites may require operation of a personal or State automobile on public roads or uneven terrain and working on and around a boat. The specific essential functions are: Process biological and environmental samples for genetic analysis using appropriate molecular laboratory methods. These will include DNA or RNA extraction, quantification, amplification, quantitative PCR (qPCR), CRISPR-based genotyping methods, and other genetic assays. Perform genomic techniques such as DNA metabarcoding and other high-throughput sequencing methods (e.g., GT-seq). Maintain accurate laboratory records and follow established protocols and QA/QC			
SUPERVISOR'S STATEMENT: I HAVE DISCUSSED THE DUTIES OF THE POSITION WITH THE EMPLOYEE.				
SUPERVISOR'S NAME (Print) Sarah Brown		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

JOB DESCRIPTION AND POSITION CLASSIFICATION

CLASSIFICATION		DWR POSITION NUMBER	SAP POSITION NUMBER	MCR
Environmental Scientist		840-355-0762-002	50000416	1
APPOINTEE		SAP PERSONNEL NO.	DIVISION/SECTION	
Vacant		TBD	DISE/ EMRR/ CES	
Percent of Time	Activity			
45% cont.	procedures to ensure high-quality and reproducible genetic data. Assist in laboratory organization and maintenance through sample database management, tracking of consumables, maintenance of chemical inventories, and maintaining laboratory equipment.			
25%	As needed, support collection and preservation of biological and environmental samples, including environmental DNA (eDNA), from the San Francisco Estuary and other monitoring locations. Prepare and deploy sampling equipment, develop and follow field protocols, and participate on field crews in accordance with established safety protocols.			
20%	Analyze genetic and ecological data from DWR monitoring programs, special studies, or long-term IEP monitoring datasets using bioinformatics tools/workflows and data visualization approaches. Apply statistical techniques to evaluate relationships, interpret results, and draw scientifically defensible conclusions.			
10%	Summarize and communicate research methods and study findings by assisting in the preparation of peer-reviewed articles, technical reports, and/or oral poster presentations at relevant scientific conferences and workshops. Assist in the development and review of SOPs (Standard Operating Procedures), protocols, articles, reports, memoranda, and project proposals developed by other staff and agencies as required.			
	As a member of the Collaborative Science and Innovation Section, facilitate and participate in collaborative partnerships within DWR, other agencies, and academia to ensure innovative tools are judiciously used to increase the DWR's resource efficiency and scientific integrity.			
	SPECIAL REQUIREMENTS			
	Field sampling may require traversing uneven terrain and boat activities in rugged outdoor environments and inclement weather. The incumbent must be able to meet the demands of field studies in aquatic habitats. Specifically, the incumbent must be able to:			
	• Swim at least 50 yards and stay afloat at least 10 minutes • Function in rough seas without incapacitation due to seasickness • Move and transport equipment up to 50 pounds			
	The incumbent may also be required to conduct field sampling at night to meet project objectives. Overtime and weekend work may be required as necessary to meet project objectives.			
	The incumbent will be required to drive to field study locations and to off-site meetings and must possess a valid California driver's license.			
	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.			

JOB DESCRIPTION AND POSITION CLASSIFICATION

CLASSIFICATION Environmental Scientist		DWR POSITION NUMBER 840-355-0762-002		SAP POSITION NUMBER 50000416		MCR 1	
APPOINTEE Vacant		SAP PERSONNEL NO. TBD		DIVISION/SECTION DISE/ EMRR/ CES			
<i>Percent of Time</i>		<i>Activity</i>					
		The Department of Water Resources (DWR) is committed to its mission and employees, and we are grounded in our commitment to public safety. DWR offers a hybrid workplace model that is designed to support a workforce of both office-centered and remote-centered workers. Regular and consistent attendance - whether office-centered or remote-centered - is essential to the successful performance in this position.					