JOB DESCRIPTION AND POSITION CLASSIFICATION

CLASSIFICATION			DWR POSITION NUMBER		SAP POSITION NUMBER		MCR	
Engineer, Water Resources (Permanent/Intermitten			t) 1380-3137-900		50040679/50040680		1	
APPOINTEE			SAP PERSONNEL NO. DIVISION/SI		ECTION			
Vacant			TBD	Modeling S	upport O	ffice/Central Valley I	Modeling	
	GAINING IDENTIFIER ment Related BU: Sur	pervisory Relate	ed BU: Cor	nfidential Relate	ed BU:	Rank and	File BU:	
		501 V1001 y 1 tolutt		maorita riciat	ou 20.	✓ R0		
RESPONSIBILITIES	S EXERCISED	IMMEDIATE SU	UPERVISOR (Print)	S	SUPERVISO	R'S CLASSIFICATION		
☐ Supervise	ory Lead Person	Raymond H	oang/Richard Chen	s	Senior Engineer, Water Resources			
APPROVED BY (Pe	ersonnel Analyst's Name)			I		DATE		
Jennifer Greath	nouse					4-17-24		
Percent of Time			Activity					
40%	POSITION SUMMARY The Engineer, Water Res Water Resources in the Support Office, is respo management simulation ESSENTIAL FUNCTIONS This position requires th Water Project (SWP) and simulation modeling; kn analysis/visualization to presentations. The incur consistent, and predicta preferred with specializa The specific essential de Develop and maintain C CalLite, used to support CVP. Apply simulation in investigations related to new regulatory actions, state agencies, federal ed document modeling ass	Central Val ensible for p models us he incumbe d Central Va nowledge ar ools and abi mbent is als able attenda ation in Wat uties are: entral Valle decisions nodels for p the operat additional sentities, and	ley Modeling Section oviding technical and for conducting the for conducting to have knowled alley Project (CVP) and working experies to required to working; and exercise ter Resources Engage by water management of the SWP and system storage, and system storage, are	on, Modeling support in water resording of hydromogeneous of progress of progr	ng Supp develop urces single erations grammingly orally ively with ment. Cind composition mode managing processe udies ince	ort Branch of the loing and maintaini mulation studies. Ind numerical analys, and water resources and in writing and and in writing and in others; maintain vil engineering deuter simulation models, including Cals g California's SWF as and water suppledude, but are not latities. Coordinate virtues and water suppledude, but are not latities.	Modeling ng water vsis, State rces data I make regular, gree odeling. Sim and vsimited to, with other	
SUPERVISOR'	S STATEMENT: I HAVE	E DISCUSSE	D THE DUTIES OF TI	HE POSITIO	N WITH T	HE EMPLOYEE.		
SUPERVISOR'S NAME (Print)			SUPERVISOR'S SIGNATURE			DATE		
Raymond Hoang/Richard Chen			>					
EMPLOYEE'S			D WITH MY SUPERV Y OF THE DUTY STA		UTIES OF	THE POSITION AN	D HAVE	
EMPLOYEE'S NAME (Print)			EMPLOYEE'S SIGNATURE DATE			DATE		
Vacant		>						

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JOB DESCRIPTION AND POSITION CLASSIFICATION

CLASSIFICATION		DWR POSITION NUMBER		SAP POSITION NUMBER	MCR				
Engineer, Water Resources (Permanent/Intermittent) APPOINTEE		1380-3137-900 SAP PERSONNEL NO. DIVISION/SE		50040679/50040680	1				
Vacant		TBD		Support Office/Central Valle	v Modelina				
Percent of Time	Activity								
35%	Develop and apply hydrologic models to generate inputs for simulation models, including CalSim and CalLite. Hydrologic inputs can include historical and climate change-adjusted inflows, applied water demands, and other required inputs to the models. Use engineering knowledge in hydrology and hydraulics to support research and development to improve models. Development activities include efforts to improve the estimates of various model parameters. Coordinate with other groups within the Modeling Support Office (MSO) and other collaborators within the CalSim community to refine CalSim simulation processes.								
25%	Develop and enhance existing post-processing tools using Excel and/or scripting (VBA, python, R) to analyze, visualize, and present results to managers and interested parties for decision support. Prepare written technical reports to summarize the development, implementation, and use of computer simulation models for planning studies and regulatory processes. Draft model documentation, technical memoranda, and other correspondence to interested parties in various State, federal and local agencies. Make presentations to managers, and the public on the model development activities and application results. Travel to meetings, conferences, or training may require driving a personal or State vehicle. SPECIAL REQUIREMENTS Must possess a valid California Driver's License to drive a personal or State vehicle.								
	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.								
	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.								
	OTHER RESPONSIBILITIES 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 Cal OES 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, recovery, and mitigation functions. These functions are established in the California State Emergency Plan and the Department's Administrative Orders.								

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