JOB DESCRIPTION AND POSITION CLASSIFICATION

CLASSIFICATION	DWR POSITION NUMBER	SAP POSITION NUMBER	MCR
Engineer, Water Resources	**6300-3137-009**	**50044445**	**1**

APPOINTEE	SAP PERSONNEL NO.	DIVISION/SECTION
	7972	**Regional Assistance/NCRO/Flow Monitoring**

COLLECTIVE BARGAINING IDENTIFIER

☐ Management Related BU: ☐ Supervisory Related BU: ☐ Confidential Related BU: ☑ Rank and File BU: **R09**

RESPONSIBILITIES EXERCISED	IMMEDIATE SUPERVISOR (Print)	SUPERVISOR'S CLASSIFICATION
☐ Supervisory ☐ Lead Person	**David W. Huston**	**Senior Engineer, Water Resources**

APPROVED BY (Personnel Analyst's Name)	DATE
S. Meeks	**11/23/26**

Percent of Time	*Activity*
	POSITION SUMMARY **Under direction of the Senior Engineer, Water Resources, the Engineer, Water Resources performs surface water data collection and dissemination, studies of river hydraulics, flow and velocity measurements using state-of-the-art electronic instrumentation, database management, and surveying.**
	ESSENTIAL FUNCTIONS **This position requires the incumbent to work cooperatively with others; maintain regular, consistent, predictable attendance; and exercise good judgment. The specific duties are as follows:**
40%	**Collect stream flow and water velocity data including organizing, conducting, and analyzing surface water measurements using acoustic Doppler current profilers (ADCPs), GPS, and similar technologies. This will require driving a vehicle on public roadways, in the field on uneven terrain, and operating an outboard motor boat. Perform engineering calculations and develop flow rating equations using the science of hydraulics. Prepare reports to summarize, interpret, and evaluate measurements and submit to supervisor for review.**
40%	**Program using VBA for Excel, basic, Python, R, or similar software to develop automated methods for checking, filtering, analyzing, and processing large quantities of flow, velocity, and water level data. Perform electronic data management tasks, including flow data preparation, Hydstra database administration, and programming data analysis tools on network and personal computers.**
10%	**Perform reconnaissance investigations, including preparation of written reports and maps to detail surface water quantity and quality data collection consistent with detailed water resource investigations.**

SUPERVISOR'S STATEMENT: **I HAVE DISCUSSED THE DUTIES OF THE POSITION WITH THE EMPLOYEE.**

SUPERVISOR'S NAME (Print)	SUPERVISOR'S SIGNATURE	DATE
David W. Huston	➢	

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)	EMPLOYEE'S SIGNATURE	DATE
	➢	

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Percent of Time	*Activity*
10%	**Meet with cooperating programs and/or agencies to coordinate requested measurements and help represent the Department in technical matters relating to analysis of the collection and display of hydrodynamic data. Prepare and reply to data requests from the public and other State and federal agencies on surface water resources.**

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 CalOES and FEMA in disaster work, including performing fieldwork to complete damage survey reports for droughts, flooding, earthquakes, fires, 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.

ADDITIONAL REQUIREMENTS

This position requires the ability to:

1. **Travel and stay overnight to perform field work for up to several consecutive days.**
2. **Work irregular hours including nights and sometimes weekends.**
3. **Work in remote locations.**
4. **Operate outboard motor boats.**
5. **Operate both standard and four wheel drive vehicles in all weather conditions.**
6. **Tolerate travel by vehicle and boat to remote locations, sometimes in a variety of inclement and uncomfortable weather conditions.**

PHYSICAL REQUIREMENTS

Field work requires strenuous physical activities including the following:

1. **Work on and around swift moving waterways.**
2. **Swim or stay afloat in case of capsizing.**
3. **Tolerate field work for long hours under a variety of extreme climatic conditions.**
4. **Trailer, launch, and recover outboard motor boats as well as a car-top boats.**
5. **Ability to bend, stoop, twist, and traverse in the field over steep uneven terrain moving and transporting loads up to approximately 40 pounds.**

SPECIAL REQUIREMENTS

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.

Must possess a valid California Driver's License and a California Boater Card (or ability to obtain) as this work requires operation of motor vehicles and watercraft.

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Percent of Time	*Activity*
	SPECIAL REQUIREMENTS CONTINUED **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.**