



STATE WATER RESOURCES CONTROL BOARD
2019 Sea Grant Fellowship Opportunity
Office of Information Management and Analysis
Surface Water Ambient Monitoring Program (SWAMP)

1. Host location and contact information

State Water Resources Control Board, CA-EPA building, Office of Information Management and Analysis (OIMA), 1001 I Street, Sacramento, CA 95814.

2. Fellowship Supervisor & Point of Contact for Finalists:

Ali Dunn, Senior Environmental Scientist
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3. Position Description

The [State Water Resources Control Board](#) was created by Legislature in 1967. Our mission is to preserve, enhance and restore the quality of California's water resources, and ensure their proper allocation and efficient use for the benefit of present and future generations.

Under the general direction of the of the [Surface Water Ambient Monitoring Program \(SWAMP\)](#) Unit senior, the Sea Grant Fellow (Fellow) will apply data science practices to perform complex analysis, interpretation and visualization of environmental data collected by Water Board Programs, including SWAMP, applicable [California Water Quality Monitoring Council](#) workgroups, and other stakeholders to inform water quality managers and the public. The SWAMP Unit is part of the State Water Board's Office of Information Management and Analysis, home of the [Water Board Data Center](#).

SWAMP's purpose is to inform management decisions and improve the efficiency and effectiveness of Water Board actions (permits, policies, resource management and other activities). Its monitoring programs collect hundreds of chemical, physical and biological samples each year in both freshwater and marine environments. The Fellow will be the SWAMP Unit's main point of contact for marine studies and will be involved in multiple phases of the SWAMP [Coastal Fish Survey](#), the [National Coastal Condition Assessment](#) (NCCA) and other coastal monitoring programs (including monitoring required by Water Board permits and other regulatory actions). Duties will include participating in monitoring study design, field sampling and logistics, meeting organization and notetaking, coordinating with partner programs, data analysis and interpretation, data visualization and communication, adding content to the [My Water Quality Portals](#), and presentation of findings to both technical and lay audiences. The Fellow will also perform other duties, as assigned, to support

the SWAMP Unit, the California Water Quality Monitoring Council, and the Office of Information Management and Analysis, such as rapid trash assessment method development or assistance with satellite imagery analysis to detect potential harmful algal blooms. In performing these duties, the Fellow will interact with interested agency staff, stakeholders and the general public in a courteous and helpful manner. The Fellow is responsible for the quantity, quality, and timeliness of work assigned.

Skills or attributes we seek include:

- Ability to perform complex scientific analysis and communicate findings to technical staff, managers and the general public.
- Strong interest in the mechanics of utilizing science to inform public policy.
- Ability to lead groups of people, often with divergent views on how to move forward on a particular issue.
- Excellent verbal and written communication skills.
- A problem solver with strong personal initiative and the ability to work well under minimal supervision.