

Sanctuary Integrated Monitoring Network (SIMoN)
Monterey Bay National Marine Sanctuary Water Quality Protection Program
Water Quality Analyst
Initial Application Deadline March 20, 2006

The Monterey Bay Sanctuary Foundation (MBSF) is a 501(c)(3) nonprofit organization whose mission is to advance the understanding and protection of the Monterey Bay National Marine Sanctuary (MBNMS) and other coastal and ocean resources in California. The MBSF requires the services of a full time Water Quality Analyst for a contract period of two years beginning in March 2006. The Water Quality Analyst will conduct an assessment of existing water quality data and water quality improvement practices (e.g. management measures) in the central coast of California and report and synthesize findings into a framework for ongoing regional monitoring and assessment.

Background:

Over the past two years, staff from the MBNMS, the Central Coast Regional Water Quality Control Board (RWQCB) the California Coastal Commission, and the Sanctuary Integrated Monitoring Program (SIMoN) have brought local, state and federal agencies, researchers, and volunteer monitoring groups together to assess and report existing data, identify gaps, and develop strategies to strengthen regional water quality monitoring efforts. The MBNMS and its watersheds are the focus of over 10 long term regional monitoring efforts focusing on river, stream and wetland conditions; beach and ocean bacteria and pathogens; DNA-identification for bacteria sources; coastal lagoon monitoring; coastal confluence monitoring; urban runoff monitoring; and monitoring for toxins and legacy pollutants in the sanctuary and its watersheds. All of these programs have created an important data set that has yet to be fully analyzed, synthesized, and reported in an integrated and ongoing fashion.

The purpose of the project is to assess water quality and water quality management in lands draining to the MBNMS and its watersheds within the boundaries of the RWQCB. The selected candidate will develop a framework for ongoing synthesis, identify analysis methods, and describe a reporting methodology for conditions and programs in the study area. The Water Quality Analyst will review and analyze spatial and temporal trends of water quality data and management practice / program information, develop an assessment report and a strategic plan for ongoing assessment and reporting in the Central Coast area.

Scope of Work:

- Convene and conduct regular meetings of a Technical Advisory Committee (TAC).
- Develop a quality assurance project plan.
- Assess existing water quality data sources and determine which programs to include in the study.
- Coordinate with existing staff and agencies to collect water quality management program information and synthesize with water quality data.
- Produce an assessment report that displays spatial and temporal water quality trends and management practice information.
- Convene a workshop of invited stakeholders from a variety of disciplines to provide stakeholder review and comment on assessment report.
- Develop a Strategic Plan that provides a framework for tracking, analyzing, and reporting long-term water quality trends and management programs and identifies tools for ongoing use.
- Assist with development of quarterly progress reports.

Qualifications:

Qualifications include:

- Bachelors degree required, Master's preferred, in natural sciences (e.g. chemistry, biology, environmental science or similar) with experience in water quality, statistics, web and database development
- Knowledge of Federal, State and Local water quality programs on the Central Coast.
- Experience in program analysis and compiling, organizing and analyzing environmental data.
- Experience in reporting data to a variety of stakeholders in varying formats (e.g. presentation, reports, website)

Other Information:

The Water Quality Analyst will be an employee of the Monterey Bay Sanctuary Foundation and work as a member of the MBNMS's SIMoN team, and will closely coordinate with the Project Manager and the Technical Advisory Committee.

The Sanctuary Integrated Monitoring Network (SIMoN) has been developed to take an integrated, long-term, ecosystem-based approach to identify and understand natural and human-induced changes to sanctuary resources.

SIMoN's main objective of developing and implementing an ecosystem monitoring network has a subset of several goals:

- Develop a database and integrate historic and recent project information, creating a synoptic view of Sanctuary resources;
- Review project information in the database, then initiate, expand, and maintain local research and monitoring efforts with project funding;
- Deliver information in a pertinent matter to resource managers, researchers, and the general public through a website, interactive maps, technical publications, and public symposia;
- Serve as a model to provide tools and potentially enhance individual Sanctuary site monitoring programs, all contributing to the System Wide Monitoring Program (SWiM) developed by the National Marine Sanctuary Program; and,
- Assist in the integration and interpretation of ocean observing systems on a regional and national scale.

The Analyst will work closely with SIMoN, MBNMS, and RWQCB staff throughout the project, including regular trips to RWQCB offices in San Luis Obispo. A travel budget is available for the project.

The project will be administered through staff of the Monterey Bay Sanctuary Foundation, the Water Quality Protection Program and the SIMoN. Funding is being provided through the California Coastal and Marine Initiative (CCMI) program of the Resources Legacy Fund Foundation, and by the U.S. Environmental Protection Agency (USEPA) pursuant to Assistance Agreement Nos. C9-96931105-1 and any amendments thereto which has been awarded to the State Water Resources Control Board (SWRCB) for the implementation of California's Nonpoint Source Pollution Control Program. This is a term employment position. Current funding is available for two years. Approximate dates of service are from April 2006 - March 2008.

Location, Compensation and Benefits:

The employee will be based at the Sanctuary office in either Santa Cruz or Monterey, California (dependent on the successful candidate) and will be provided with desk space, computer, access to phone, internet, fax, copy machine, etc. The employee is expected to be available during normal business hours. Monterey Bay Sanctuary Foundation employment and health benefits are included with the position. Salary is commensurate with experience.

The day-to-day supervisory structure will be two tiered. First-line supervision will reside at the MBNMS. The MBSF Executive Director will oversee financial and human resource matters.

The Monterey Bay Sanctuary Foundation is an equal opportunity employer.

How and When to Apply:

Email, fax or mail a cover letter, resume, and 3 references to:

Monterey Bay Sanctuary Foundation
Attn: Bridget Hoover
299 Foam Street
Monterey, CA 93940

Email: admin@mbnmsf.org

Fax: 831-647-4244

Applications are due by March 20, 2006

Email submission is preferred. No phone calls please.