



Job Announcement

BEACH WATER QUALITY MODELER

Heal the Bay is a regional environmental nonprofit group dedicated to making coastal waters and watersheds of greater Los Angeles safe, healthy, and clean. Progress toward the mission is achieved by effectively combining the use of science, advocacy, community outreach, and public education to create positive change in our local environment.

Position Summary:

The Beach Water Quality Modeler position would develop and implement 'Nowcast' models of beach water quality at beaches around the State of California as part of Heal the Bay's Beach Report Card program. The Beach Water Quality Modeler will be the lead technical researcher/modeler on a State funded project to extend 'Nowcasting' to approximately 25 beaches over a three year period. The modeler will be responsible for optimizing and calibrating multiple linear regression (MLR) models of beach water quality. This will require interfacing and networking with beach managers across the state, as well as our project collaborators at Stanford University and UCLA.

Background: The Predictive Modeling Project has been underway for three years, and models were piloted at three beaches in summer of 2015. The initial investigation into the use of models to predict water quality can be found in two peer-reviewed publications—see links below.

Functions Include:

- Develop and Implement MLR models of beach water quality;
- Calibrate and Validate MLR models annually;
- Collect data and manage databases necessary to run models;
- Daily Model Runs;
- Network and interface with beach managers and project collaborators;
- Disseminate model results to beach managers and interested stakeholders;
- Lead and complete annual assessments for grant and report publications;
- Presenting model results/assessments at meetings, conferences, and public hearings;
- Develop and manage digital media (web page, twitter, etc.) associated with model results;
- Attend external agency and working group meetings relevant to beach water quality issues;
- Coordinate with the Beach Report Card manager on water quality or data information integration.

Experience and Skills Required:

- Passion for Heal the Bay's mission;
- MS/PhD in Engineering; Computer or Environmental Science; Math; or any related discipline is required;
- Knowledge of water quality issues favorable
- Strong research and analytical skills, with an ability to apply science to policy;
- Empirically oriented, with statistical modeling background in Matlab or SPSS;
- Excellent organizational skills;
- Ability to work independently and cooperatively with colleagues;
- Some evening and weekend work is required;
- Regional and statewide travel is required.

This is a full-time, contracted position for three years (January 2016 through December 2018) with health, dental, vision and vacation benefits.

Heal the Bay is an equal opportunity employer and actively recruits to promote diversity in our workforce.

Application Information

Salary Range: \$48,000-\$55,000 based on experience

Please send a cover letter, resume, and references to:

www.healthebay.org/jobs.