The Aquatic Health Program (PIs: Hammock and Teh) seeks a Postdoctoral Researcher with experience in data analysis and a strong publication record to join our team at the University of California, Davis (UCD). Other areas in which experience is desirable (but not required) include toxicology, chemistry, ecology, and fish conservation.

The successful candidate will analyze an existing, long-term, relational dataset of chemical concentrations and hydrodynamic variables for the Sacramento-San Joaquin Delta. The overarching goal of the project is to improve understanding of how water year type (dry, normal, wet) affects contaminant concentrations and exposure risk. The candidate will investigate how concentrations of several chemical classes (e.g., pyrethroids, metals) vary with flow, water year type, time since last storm, and other relevant variables. Our expectation is that the candidate will use the dataset to understand the functional form of the relationship between chemical concentrations/detections and flow/water year for a variety of chemical classes, write a peer-reviewed publication, and present the research to funding agencies and at conferences.

The main focus of our lab is conservation of osmerids (fish) in the San Francisco Estuary. There will therefore be opportunities to collaborate on other research, including fish stressor experiments, running biochemical assays, histology, and dissections. The candidate will also be encouraged to continue developing their own research program.

Initial appointments will be for one year with a possibility of extension.

For full consideration, applications must be received by Dec 20, 2023. Applications will continue to be accepted after this date, but those received after the review date will only be considered if the position has not yet been filled.

Qualifications:
• Ph.D. in Aquatic Ecology, Fish Physiology, Environmental Toxicology, Animal Biology, Chemistry, Statistics, or a related field.
• Strong skills in data analysis, and interest in applying those skills to analytical chemistry data
• Strong interpersonal and communication skills
• Ability to work independently and collaboratively with researchers and students from many scientific backgrounds, including agency partners and stakeholders.
• Strong publication record, including first author publication(s),
• Strong experience with data analysis software such as R
• Excellent technical, analytical, organizational, and problem-solving skills,
• Strong attention to detail, and meticulous work style, as evidenced by previous research,

The following qualifications and expertise are desired but not required:
• Familiar with toxicological research
• Background in chemistry

• Interest in fish conservation, biomarkers, and dissection experience
• Previous experience working with fish species in connection with aquaculture or a research facility.
• Previous experience managing, mentoring or overseeing staff, graduate or undergraduate students.

Salary:
Salary and benefits are determined by UC Davis policy and applicant experience. You can find more information on UC Davis Box.
[https://ucdavis.account.box.com/login?redirect_url=https%3A%2F%2Fucdavis.app.box.com%2Fs%2Fd2cv7dqvg2moyw5ymr1gokliyn3ddfqz]

Application Requirements:
• Curriculum Vitae - inclusive of publications, awards, and both laboratory and field experience
• A cover letter discussing your key qualifications, professional goals, and specific interest in this position. Please include potential faculty mentor names.
• A list of 3 references
• Please send all application materials, or questions, to brucehammock@gmail.com, with the subject line: “Post-Doc contaminant analysis” so that it can be easily recognized.

For more information about the ongoing research, visit our website at Aquatic Health Program, UC Davis [https://aquatichealth.vetmed.ucdavis.edu/]