The Institute of Marine Sciences (https://ims.ucsc.edu/) at the University of California, Santa Cruz (UCSC), and the National Marine Fisheries Service (NMFS) in collaboration with the National Oceanic and Atmospheric Administration (NOAA) invites applications for the position of Scientific Software Developer to work alongside a team of scientists to develop scientific software to perform large-scale simulations of river/estuary ecosystems in California. The successful candidate will work with an integrative team of researchers at the UCSC/NOAA Long Marine Lab facility in Santa Cruz, CA under the direction of Dr. Andrew Hein and Dr. Vamsi Sridharan.

This position is part of a new multi-year project to build a data-driven simulation model of fish migration through rivers and estuaries in central California. We are seeking a software developer with expertise in developing efficient software for performing large-scale simulations/data analysis. The successful candidate will work with a team of scientists to engineer and implement a computational model of the system of interest and to test and update this simulation architecture as new scientific information becomes available. The position may also involve development of a basic web-based front end to allow researchers and the public to interact with model output. This position will provide a unique opportunity to work with an interdisciplinary team to address important environmental problems at the interface of science, computation, and software design. Please direct questions to Andrew Hein (ahein@ucsc.edu).

Applicants with any of the following qualifications are strongly encouraged to apply:

- Demonstrated skills in software development.
- Experience working with scientists and/or research engineers
- Experience with parallel processing, computational fluid dynamics tools and applications, or GIS applications

**ACADEMIC TITLE**

Junior Specialist to Specialist (see rank qualifications)

**SALARY**

Commensurate with qualifications and experience. Minimum annual salary rates are made based on the individual’s Experience Level. See current salary scale for Specialist Titles at https://apo.ucsc.edu/compensation/salary-scales/index.html

**BASIC QUALIFICATIONS**

- Bachelor’s degree or higher in computer science (or equivalent foreign degree) at the time of application or a Ph.D. (or equivalent foreign degree) in hydrodynamics or biology at the time of application
- Documented experience (e.g. as demonstrated via project portfolio or scientific manuscripts) with developing and implementing computational programs using one or more of the following: C, C++, Fortran, Java

**POSITION AVAILABLE**

As soon as possible after initial review of the applications

**DURATION OF POSITION**

Initial appointment will be full-time for one year, with the possibility of reappointment through 2021. Should the hiring unit propose reappointment, a review to assess performance will be conducted. Reappointment is also contingent upon availability of funding.

**APPLICATION REQUIREMENTS**

Applications are accepted via the UCSC Academic Recruit online system. All documents and materials must be submitted as PDFs.
APPLY AT https://recruit.ucsc.edu/apply/JPF00555.
Please refer to Position # JPF00555-18T in all correspondence.

Documents/Materials
- Letter of application that addresses how you meet the qualifications and why you are interested in the position (REQUIRED).
- Resumé or curriculum vitae (REQUIRED).
- A summary of past projects demonstrating an ability to develop simulation/analysis software (REQUIRED).
- Either a project portfolio or up to two representative scientific manuscripts (drafts of manuscripts in review are also acceptable). (REQUIRED).
  *If submitting two manuscripts, please note that they will have to be uploaded as one PDF document.

Reference Requirement
Applicants must provide the names and contact information of their references (a minimum of 3 references are required and a maximum of 4 will be accepted). The hiring unit will request confidential letters from the references of those applicants who are under serious consideration. Please note that your references, or dossier service, will submit their confidential letters directly to the UC Recruit System.

*All letters will be treated as confidential per University of California policy and California state law. For any reference letter provided via a third party (i.e., dossier service, career center), direct the author to UCSC’s confidentiality statement at http://apo.ucsc.edu/confstm.htm.

RECRUITMENT PERIOD
Full consideration will be given to applications completed by July 6, 2018. Applications received after this date will be considered only if the position has not been filled.