

Research or Project Scientist Position in Oceanic Modeling

Department of Atmospheric and Oceanic Sciences
University of California, Los Angeles (UCLA)

We are looking for a person who is competent in, and has a passion for, high-performance scientific computing, in particular for computational fluid dynamics. Knowledge of distributed parallel computing is essential. The successful candidate will work together with specialists in oceanic computer modeling to further the development of UCLA Regional Oceanic Modeling System (ROMS), which is an algorithmically sophisticated, well-developed code that is widely used for high-resolution, nested-grid, turbulent flows in various geographically accurate configurations, both for scientific discovery and for simulated reality (*e.g.*, see figure below). He/she will implement new algorithms into the existing code base to extend the functionality and will be responsible for the continuing maintenance and evolution of the code, in coordination with other research scientists in the modeling group. Depending on background and interests, there will be opportunities for further algorithmic development and implementation of additional physical processes.

The ROMS code is written in Fortran, so a prior knowledge of it is advantageous, but not required. Desirable skills are proficiency in working in an Linux environment; knowledge of high-performance scientific computing in either computational fluid mechanics or a related field; experience with distributed-memory, parallel computing; ability to work with oceanic scientists on code development; good interpersonal skills; knowledge of other programming languages (*e.g.*, C or C++, Python, Julia).

The initial appointment is full-time for one year with continuation with satisfactory progress. The position is available immediately, and applications will be considered until the position is filled. The University of California is an Equal Opportunity/Affirmative Action Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability, age, or protected veteran status. Please email a cover letter stating your research accomplishments and interests, a curriculum vitae, representative publications and/or work products (*i.e.*, code samples), and contact information for three references to James C. McWilliams and Jeroen Molemaker (jcm@atmos.ucla.edu, nmolem@atmos.ucla.edu), Dept. of Atmospheric and Oceanic Sciences, University of California, Los Angeles, CA 90095-1565.

