



College of Earth, Ocean, & Atmospheric Sciences

Oregon State University

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Research Associate (Post Doc)

Position Announcement

Position # 0008318

Position: The College of Earth, Ocean, and Atmospheric Sciences invites applications for a full-time (1.0 FTE), 12-month, fixed-term Research Associate (Post Doctoral) position. Reappointment is at the discretion of the Dean.

This position will conduct independent research under the guidance of Principal Investigators (PIs) and in collaboration with University of Washington co-PI on ocean circulation and carbon-oxygen cycling on the Oregon coastal margin, developing and using numerical models and comparing model results to existing observations. The College of Oceanic and Atmospheric Sciences (COAS) is one of the world's leading oceanographic and atmospheric science graduate research institutions, with a major focus on coastal ocean processes.

In Fall of 2011 the newly formed College of Earth, Ocean, and Atmospheric Sciences (CEOAS) comprises the Department of Geosciences and the College of Oceanic and Atmospheric Sciences (COAS) at Oregon State University. This fulfills the vision to create a research and education enterprise that will span the natural science disciplines and create strong linkages with the social sciences.

Responsibilities:

70% Model development and application:

Implement a high-resolution (1-3 km grid) primitive equation ocean circulation model for the Oregon coastal zone, using an existing community model. Develop computer code for a simplified biogeochemical tracer module and implement this module in the circulation model. Compare modeling results with existing physical and biogeochemical observations, and analyze to address hypotheses on carbon export and oxygen-cycle mechanisms. Determine the dependence of biogeochemical transport and transformation mechanisms on the physical flow field to identify specific aspects of the physical circulation that must be well represented in order to capture properly the combined system dynamics.

30% Prepare and publish papers in scientific journals; communicate scientific results:

The postdoctoral investigator will have primary responsibility for transforming research results into manuscripts to be submitted for publication, and will be encouraged to participate and present results as lead investigator at national and international meetings and departmental seminars, and to participate fully in joint Oregon State University-University of Washington (OSU-UW) PI discussions.

Qualifications:

- Ph.D. in physical or chemical oceanography, or a closely related field.
- Experience with numerical modeling of coastal ocean flows or biogeochemical systems.
- Familiarity with FORTRAN or another similar computing language.

Preferred Qualifications:

- Experience with coupled numerical modeling of coastal ocean flows and biogeochemical or similar systems, with community numerical models such as the Regional Ocean Modeling System (ROMS), and with modifying or supplementing computer code for numerical solution of ocean or related models.
- A demonstrable commitment to promoting and enhancing diversity.

To Apply: To access application instructions, go to <https://jobs.oregonstate.edu/applicants/Central?quickFind=59579> and for the position announcement, go to <http://www.coas.oregonstate.edu/>

When applying you will be required to attach the following electronic documents:

- 1) A resume/CV that includes the names of at least three professional references, their e-mail addresses and telephone contact numbers (Upload as 'Other Document' if not included with your resume/vitae).
- 2) A cover letter indicating how your qualifications and experience have prepared you for this position.

Inquiries about the position may be directed via email to Dr. Samelson at rsamelson@coas.oregonstate.edu or Dr. Hales at bhales@coas.oregonstate.edu.

Closing Date: For full consideration for this position, your application must be received by December 31, 2011.

University and Community: OSU is one of only two American universities to hold the Land-, Sea-, Sun- and Space-Grant designations and is the only Oregon institution recognized for its "very high research activity" (RU/VH) by the Carnegie Foundation for the Advancement of Teaching. The university is comprised of 11 academic colleges with strengths in natural resources, Earth dynamics and sustainability, life sciences, entrepreneurship and the arts and sciences. OSU has facilities and/or programs in every county in the state, including 12 regional experiment stations, 41 county extension offices, a branch campus in Bend, a major marine science center in Newport and a range of programs and facilities in Portland. It is Oregon's largest public research university, conducting more than 60 percent of the research funded throughout the state's university system.

OSU is located in Corvallis, a community of 53,000 people situated in the Willamette Valley between Portland and Eugene. Ocean beaches, lakes, rivers, forests, high desert, the rugged Cascade and Coast Ranges and the urban amenities of the Portland metropolitan area are all within a 100-mile drive of Corvallis. Approximately 15,700 undergraduate and 3,400 graduate students are enrolled at OSU, including 2,600 U.S. students of color and 950 international students.

Oregon State University is an Affirmative Action/Equal Opportunity Employer