Position Announcement
College of Earth, Ocean, and Atmospheric Sciences
Posting P00062UF, https://jobs.oregonstate.edu/

Research Associate (Post Doc)

The College of Earth, Ocean, and Atmospheric Sciences invites applications for a full-time 1.00 FTE, 12-month, fixed term Research Associate (Post Doc) position. Reappointment is at the discretion of the Dean.

The Research Associate (Post Doc) will conduct research on small-scale turbulent processes in the ocean and analyze their impact on larger-scale currents. Direct numerical simulation will be the primary research tool, but the Research Associate (Post Doc) will also analyze observational data and will have the opportunity to take part in research cruises. This research is part of a National Science Foundation (NSF) project to develop parameterizations of mixing for ocean and climate models. This person will work as part of the Ocean Mixing Group with the College of Earth, Ocean, and Atmospheric Sciences (CEOAS) at Oregon State University (OSU), located in Corvallis, Oregon. The Research Associate (Post Doc) will be granted access to NSF-funded high-performance computing facilities as part of this appointment.

The College of Earth, Ocean, and Atmospheric Sciences is an internationally recognized leader in the study of the Earth as an integrated system. It operates numerous state-of-the-art laboratories and two oceanographic research vessels, the 177-foot ocean-going Oceanus and the 54-foot coastal research vessel, Elakha. The college has an annual budget of more than $50 million, with support coming from the National Science Foundation, National Oceanic and Atmospheric Administration, National Aeronautics and Space Administration and other federal agencies. It has more than 100 faculty, 200 graduate students and 600 undergraduate students. Graduate programs include Master’s and PhD degrees in Ocean, Earth and Atmospheric Sciences; Geology; and Geography and a Master’s degree in Marine Resource Management. The college has undergraduate programs in Earth Sciences and Environmental Sciences, with several minors, options, and certificate programs. For information regarding the College of Earth, Ocean, and Atmospheric Sciences please visit http://www.ceoas.oregonstate.edu/.

Responsibilities:

25% Preparation and Turbulence Simulation Research:
Modify and compile Fortran/Message Passing Interface (MPI) programs to simulate turbulent mixing events. Run programs remotely at the National Center for Atmospheric Research (NCAR)-Wyoming Supercomputing Center.

50% Data Analysis and Interpretation:
Simulation data will be transferred from the NCAR facility to local computers in a format suitable for analysis (likely in the Matlab environment). The incumbent will simultaneously analyze numerical and observational data in Matlab format. Assess the consistency between
observed and simulated mixing events. Combine these analyses, and reach conclusions regarding the optimal way to parameterize mixing in large-scale ocean and climate models.

Compile information and results into meaningful formats to ensure content is appropriately represented.

Maintain records and data analysis information electronically.

25% Publications and Presentation:
Collaborate on two peer-reviewed journal articles, and be the lead author in at least one of them. Present at annual oceanographic conferences, or meetings as requested.

Minimum/Required Qualifications:
PhD in physics, physical oceanography, or a related field involving fluid turbulence.
Experience in computational fluid dynamics.
Knowledge of Fortran programming.
Strong Written and oral communication skills.

Preferred Qualifications:
Experience with large multiprocessor computing facilities.
Knowledge of MPI.
Broad understanding of physical oceanography.
A demonstrable commitment to promoting and enhancing

Working Conditions/Schedule:
Duration of appointment is anticipated to be two years. Most of the work will involve a typical office environment and schedule. If incumbent chooses to take part in research cruises, working conditions will be less comfortable and hours longer.

Application Closing: For full consideration, applications must be received by MARCH 15, 2016. Position closing date is March 31, 2016.

To Apply: go to http://jobs.oregonstate.edu posting P00062UF. Salary is competitive and will be commensurate with experience.

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 ‘Professional References’ if not included with your resume/vitae).

2) A cover letter indicating how your qualifications and experience have prepared you for this position.

For additional information please contact: William Smyth at 541-737-3029 or smyth@coas.oregonstate.edu
OSU commits to inclusive excellence by advancing equity and diversity in all that we do. We are an Affirmative Action/Equal Opportunity employer, and particularly encourage applications from members of historically underrepresented racial/ethnic groups, women, individuals with disabilities, veterans, LGBTQ community members, and others who demonstrate the ability to help us achieve our vision of a diverse and inclusive community.

To ensure full consideration, applications must be received by March 15, 2016. Applications will continue to be accepted after the full consideration date, until a sufficient applicant pool has been achieved or the position is filled. The closing date is subject to change without notice to applicants.

University and Community:
Oregon State is the state's Land Grant University and is one of only two in the U.S. to have Sea Grant, Space Grant and Sun Grant designations. Oregon State is the only university in Oregon to hold both the Carnegie Foundation's top designation for research institutions and its prestigious Community Engagement classification. As Oregon's leading public research university, with $285 million in external funding in the 2014 fiscal year, Oregon State's impact reaches across the state and beyond. With 11 colleges, 15 Agricultural Experiment Stations, 35 County Extension offices, the Hatfield Marine Sciences Center in Newport and OSU-Cascades in Bend, Oregon State has a presence in every one of Oregon's 36 counties, with a statewide economic footprint of $2.23 billion. Oregon State welcomes a diverse student body of over 30,050 students from across Oregon, all 50 states and more than 100 countries, choosing from more than 200 undergraduate and more than 80 graduate degree programs, including over 30 offered online through Oregon State Ecampus. Oregon State increasingly attracts high-achieving students, with nationally recognized programs in conservation biology, agricultural sciences, nuclear engineering, forestry, fisheries and wildlife management, earth oceans and atmosphere, community health, pharmacy and zoology.

Oregon State is located in Corvallis, a vibrant college town of 58,000 in the heart of western Oregon's Willamette Valley. located about 90 miles south of Portland and one hour from the Pacific Coast and the Cascade Mountains. Corvallis is an idyllic college town, and is consistently ranked among the best and safest cities to live in the U.S. Corvallis is at the top of the list of most affluent cities in Oregon and number two among the most educated cities domestically. Recently, Corvallis was ranked the fourth best overall college city in America by WalletHub. Corvallis was also named the one of the most secure small towns in the U.S. by the Farmers Insurance Group, and Sunset magazine named Corvallis one of its five favorite eco-friendly small towns. Known for being one of the most environmentally responsible towns, Corvallis sits in the middle of Oregon's finest recreational and scenic areas: ocean beaches, lakes, rivers, forests, high desert, and the rugged Cascade and Coast Ranges are all within a short driving distance.

For more information regarding OSU please visit: http://main.oregonstate.edu/about.

OSU is committed to a culture of civility, respect, and inclusivity. As an Affirmative Action/Equal Opportunity employer, OSU values diversity in our faculty and staff regardless of their self-identity; to that end, we particularly encourage applications from members of historically underrepresented racial/ethnic groups, individuals with disabilities, veterans, women, LGBTQ community members, and others who share our vision of an inclusive community (http://main.oregonstate.edu/equity-inclusion-and-diversity-oregon-state-university).