CIRES Research Associate
Postdoctoral Position in Multiscale Ocean Dynamics and Modeling

A postdoctoral position with a duration of 2 years and the potential for extension is open at the University of Colorado at Boulder, starting immediately, for the project entitled "Multiscale Modeling of the Coupling between Langmuir Turbulence and Submesoscale Variability in the Oceanic Mixed Layer" funded by the National Science Foundation. This job is coordinated by the Cooperative Institute for Research in Environmental Sciences (CIRES) in Boulder, Colorado and includes a visiting scientist appointment at the National Center for Atmospheric Research, also located in Boulder. The research project is in collaboration with scientists at the University of New Hampshire and the University of Washington.

The focus of the project is to develop, simulate, and analyze multiscale models of the coupling between submesoscale dynamics and 3d ocean surface turbulence including surface gravity wave and Langmuir turbulence effects. The successful applicant will simulate the ocean over a range of scales, interacting within a group performing Large Eddy Simulations of oceanic boundary layers, ocean process models, and IPCC-class global climate models as well as observation analysis of oceanic boundary layers. The work will be applied to ongoing parameterization development of submesoscale and Langmuir-scale physics for global climate models in conjunction with National Center for Atmospheric Research scientists. Details are available at: http://fox-kemper.com/research, http://www.amath.colorado.edu/faculty/julien/research.html, http://www.cgd.ucar.edu/oce, and http://www.mmm.ucar.edu/people/sullivan.

Requirements

- Applicants must have achieved a doctorate or have presented the dissertation for assessment before accepting an offer. An approved dissertation is required before an appointment will be granted.
- Applicants are expected to have demonstrated expertise in one or more of the areas of computational fluid mechanics, physical applied mathematics, geophysical fluid dynamics, numerical physical oceanography, and/or closely related disciplines.
- Applicants must have demonstrated abilities in computational simulations, conducting independent research and publishing research results in journals of international level.
- The successful candidate will work in an multidisciplinary environment. Thus, the ability to communicate and collaborate is important.

Further details about the position can be obtained from professors Baylor Fox-Kemper (bfk@colorado.edu), Keith Julien (julien@colorado.edu), Peter Sullivan (pps@ucar.edu), Frank Bryan(bryan@ucar.edu), and Gokhan Danabasoglu (gokhan@ucar.edu). The position is extendable upon satisfactory performance.

The position will be filled as a Research Associate the University of Colorado at Boulder and will be eligible for employee benefits, including 22 days of vacation per year. Screening will begin immediately and continue until filled.
To apply go to:
www.jobsatcu.com/applicants/Central?quickFind=59860

Applications must upload a complete CV which includes overview on education, professional experience, list of scientific publications, names of three references, a letter of recommendation (Document 1), and Proof of Degree(Document 2) **Job Code BAY-1**