

LabexMer Postdoctoral Position on the Submesoscale Ocean Dynamics

A full-time postdoctoral position is available jointly at the European Institute of Marine Sciences (IUEM) and the French Research Institute for Exploration of the Sea (IFREMER) in Brest, France, under the supervision of Dr. Jeroen Molemaker. The position is funded by the LabexMer Chair in fine scale ocean dynamics.

We are seeking a researcher to work on problems of small scale oceanic circulation using both observations and modeling with the Regional Oceanic Modeling System (ROMS). We are seeking a motivated and independent individual, with a strong background in Physical Oceanography and numerical modeling. Ability to work in a team is essential and a strong publication record is desired.

The research goals of the project are to investigate the dynamics of submesoscale oceanic flows. The research within the project will be at the forefront of ocean modeling and will focus on geostrophic dynamics and its implications for diapycnal mixing, vertical exchanges in the surface layer, and energy budgets. The tools that will be used are numerical ocean models, primarily the Region Ocean Modeling System, ROMS. An essential part of the project is to extend the model functionality specifically for the modeling of small oceanic scales. This will include the implementation in the model of numerical algorithms within an MPI based parallel environment. There may be opportunity to spend a period of time doing research at UCLA in Los Angeles.

The successful candidate will demonstrate proficiency in the following areas:

- The ability to program in Fortran using MPI for parallel computing
- Strong background in Physical Oceanography or related field.
- Write diagnostic tools using a scripting language such as matlab or python.
- Strong communicative skills

Funding is available for up to 3 years with renewal after 1 year pending satisfactory research progress. Salary will be € 30,000 – 32,000 plus benefits.

Brest is home to the largest oceanographic community in France. The network of academic and government institutes based here provide numerous opportunities for interactions, collaborations and sharing of resources for the exploration of the sea. The city of Brest has a rich maritime culture and is located along the charming coastline of Brittany.

To apply, please send a letter of motivation, detailed CV including publication list, and contact information for 2 references to contact-labexmer@univ-brest.fr

Deadline for applications: April 31, 2015