



## **Research Associate or Post-doctoral Position at the University of British Columbia as part of the NCE: MEOPAR**

The Department of Earth, Ocean & Atmospheric Sciences at the University of British Columbia (UBC) invites applications for a Research Associate or Postdoctoral Fellow in the field of physical ocean numerical modelling. The successful applicant will conduct collaborative research between groups at UBC and the Delft University of Technology (TUD), Netherlands, investigating the feasibility of coupling numerical models.

The position is for one-year and preferred start dates are Nov 2014-Feb 2015. The application deadline is Sep 30, 2014 but will be extended if a suitable candidate has not been found.

### **Project and Responsibilities**

As part of the MEOPAR ([meopar.ca](http://meopar.ca)) Network of Centres of Excellence, the group at UBC in collaboration with groups at Dalhousie University, Environment Canada and Fisheries and Oceans Canada is developing a coupled bio-chem-physical model, based on the NEMO model. The group at TUD is working with Delft-3D modelling river mouths and plumes. These are the two models that will be coupled, using as a test case the Strait of Georgia and the Fraser River. The Strait of Georgia is a deep (400 m), long (120 km) semi-enclosed basin about 30 km wide. Its surface is dominated by freshwater outflow, particularly from the Fraser River. This creates a productive temperate ecosystem with large spatial and temporal variations. Applications for the model include marine prediction for oil spills, object tracking and storm surges.

The position is based in Vancouver, BC and the successful applicant must be willing to spend periods of at least a month in Delft, Netherlands as required to use the expertise of the two models.

Additional responsibilities will include: presenting results at the two universities, reporting to MEOPAR and publication of the main results in peer-reviewed international journals.

### **Minimum Qualifications and Experience**

A Ph.D. together with a strong background in numerical modelling of coastal or estuarine ocean systems. Experience with unstructured grid models is preferred. Experience with either or both of the numerical models NEMO and Delft-3D would be an asset. The position is for one-year and preferred start dates are Nov 2014-Feb 2015. Salary is dependent upon

educational level and experience; the minimum salary is \$46,000 per year plus benefits. Appointment will be as a post-doctoral fellow if successful applicant is within 5 years of receiving their PhD.

## **How to Apply**

Applications, including a CV, copies of two relevant publications, and the names, e-mails and phone numbers of three referees should be sent to Dr. Susan Allen (sallen@eos.ubc.ca). The application deadline is Sep 30, 2014, but it will be extended if a suitable candidate has not been found.

UBC hires on the basis of merit and is committed to employment equity. All qualified persons are encouraged to apply. We especially welcome applications from members of visible minority groups, women, Aboriginal persons, persons with disabilities, persons of minority sexual orientations and gender identities and others with the skills and knowledge to engage productively with diverse communities. Canadians and permanent residents of Canada will be given priority.

