

Vacant position: Senior ocean modeler

Background:

The modeling team at Nansen Center consists of 15 researchers with main focus in data assimilation, coupled ocean - biogeochemical modeling and - sea ice modeling. Together, the team has developed the TOPAZ system, the official Arctic component in the MyOcean project ([www.myocean.eu](http://www.myocean.eu)) and has established a leading international position for operational ocean forecasting in the Arctic and Nordic Seas. The TOPAZ system is built on the HYCOM ocean model, which has been used at NERSC for over 10 years and constitutes the core of all its modeling and data assimilation activities. NERSC has also joint modeling and data assimilation activities with other Nansen Centers in P.R. China, South Africa and India, where other regional configurations of HYCOM are running.

The Position:

NERSC is looking for a senior ocean modeler to take the lead of the ocean modeling developments. The position is supported by internal funds for an initial period of two years and will be continued in a permanent position depending on performance and successful funding. The immediate goals are to configure a high-quality HYCOM ocean model to maintain the future Arctic Ocean forecasting and reanalysis systems at the state of the art (TOPAZ version 5 and beyond) and further develop HYCOM in connection to the novel ocean ecosystem and sea ice models developed at NERSC.

Objectives beyond the two initial years:

- Manage the ocean modeling group and expand its activities.
- Carry out basic research with the model and collaborate with other departments at NERSC.

Requirements:

The candidate must have a topically-relevant PhD and a strong record in research using ocean models. The knowledge and experience with respect to the following topics should be ranked on a scale from 1 to 10:

- Development of ocean models.
- Research applications of realistic ocean models (experience with HYCOM or isopycnal coordinate models would be advantageous).
- Numerical analysis.
- Experience with ocean-atmosphere coupling, (coupling with sea ice or ecosystem would also be advantageous).
- Arctic and Nordic Seas oceanography.

Female applicants will be given higher priority for an equal level of qualifications.

Please send your application (consisting of a CV, motivation letter and contact of 2 or 3 references) by e-mail to [Laurent.bertino@nersc.no](mailto:Laurent.bertino@nersc.no) (with copy to [admin@nersc.no](mailto:admin@nersc.no)) within the 10th February 2015. Use the subject "application for a senior researcher position in ocean modeling".