



The Nansen Environmental and Remote Sensing Center (NERSC) is an independent non-profit research foundation in Norway. The vision of the Center is “to pioneer understanding of the Earth system and science-based innovation for society”. The Center conducts multidisciplinary sciences with focus on marine, cryosphere and atmospheric research with integration and links to innovation and service development. The high latitudes and the Arctic are given special attention. NERSC takes an active part in training and capacity building as well as dissemination to stakeholders and society in support of sustainable environment and blue growth. Strategic national and international partnerships are highly prioritized.

The primary financial income for NERSC derives from projects from various financing agencies awarded in open competition. The Center also receives basic funding from the Ministry of Climate and Environment in Norway. NERSC is an active research partner in the [Bjerknes Centre](#) for Climate Research and at the [Hjort Centre for Marine Ecosystem Dynamics](#). NERSC is also leading the Copernicus Marine Environmental Monitoring service for the high latitude seas and Arctic Ocean in collaboration with the Meteorological Institute of Norway and the Institute of Marine Research. The Center has extensive international collaboration, including the “Nansen Group” with research centers in Russia, India, China, South Africa and Bangladesh. The Center presently has 80 employees from 25 nations.

Researcher position at the Nansen Environmental and Remote Sensing Center in Bergen, Norway.

A 3-year scientist position is open at the Nansen Center for assimilation of chemical and biological data into coupled physical-biogeochemistry ocean models. The goal is to improve marine ecosystem models to provide more reliable information to end users by means of assimilation of both satellite and in-situ measurements. NERSC has developed the TOPAZ modeling and data assimilation system for the North Atlantic and Arctic Oceans during the last 15 years. This system, including the biogeochemistry compartment, is presently operational in the Arctic component of the integrated European Copernicus Marine Environmental Monitoring Services (CMEMS). Due to the challenges of estimating the parameters of strongly non-linear biogeochemical models, methodological developments in data assimilation need to be pursued. For that purpose NERSC has implemented a variant of the Ensemble Kalman Filter with a Gaussian anamorphosis both into the TOPAZ-ECOSMO model for primary production and into the global ocean Carbon cycle module of the Norwegian Earth System Model (NorESM) (in collaboration with the Bjerknes Center for Climate Research). These two activities benefit from strong support, respectively for the Arctic component of the European CMEMS and the NordForsk Center of Excellence Embla.

The candidate should hold a PhD, have a strong background in applied mathematics, genuine interest in marine ecosystems dynamics, and experience in numerical modeling or data assimilation. Experience in parallel programming with complex codes would be beneficial. We offer salary based on skills and experience, within national standards. We also offer pension agreements. For an equal level of qualifications, female applicants will be given priority. The starting date is in November 2016 or sooner.

More information:

<http://www.nersc.no>

<http://marine.copernicus.eu/>

<http://www.bjerknes.uib.no/>

Deadline for applications: 1st of October 2016. Please send an application consisting of a CV with a publication list, a cover letter and the contacts of references by e-mail to admin@nersc.no with CC to laurent.bertino@nersc.no and annette.samuelson@nersc.no. Include in the subject line "Application for a position in assimilation of biological data".