



Ocean Modeller

Application Due: 31-08-2015

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The Danish Meteorological Institute (DMI), Department of Research and Development, has a vacant position for an Ocean Modeller with a background in geophysics (physical oceanography), engineering or applied mathematics, to support our operational ocean activities and research. In particular we are seeking a candidate who can contribute to the development of our existing ocean data-assimilation systems which presently includes a 3D variational system and an ensemble-based assimilation system (the Parallel Data Assimilation Framework). The successful candidate is expected to further develop the applied methods, to work on improving the systems for the assimilation of new types of observations and to mature the systems for operational use. The ocean circulation models in use are the Hiromb-Boos-Model (HBM) that is maintained and developed in collaboration with partners in the Baltic Sea and the Hybrid Coordinate Ocean Model (HYCOM).

The Department of Research and Development (<http://www.research.dmi.dk>) consists of approx. 65 scientists organized in two sections: *Model Development* and *Climate and Arctic Research*. The successful candidate will be part of the Section for Model Development. The working environment is international with English being our working language.

As part of your job you will also be involved in developing, maintaining, updating and testing of our three-dimensional ocean circulation models, including modules for ecosystem variables and sea ice. The Section for Model Development has access to state-of-the-art, in house supercomputing facility for operational and research applications. As a section we strive to develop the best forecast models and to be a leading provider of marine and meteorological services for the Danish Realm.

Main working tasks

- Further development and maintenance of our data-assimilation systems and model codes.
- Transfer data-assimilation research progress into operational forecasting.
- Participation in Model Development's research projects.
- Participation in proposal writing and project applications, for example in collaboration with the section's staff.
- Participation in project workshops and publication of scientific results.

Your Competences

We are looking for a candidate with a MSc or Ph.D. degree in geophysics (physical oceanography), engineering, applied mathematics or similar and:

- Thorough knowledge of geophysical fluid dynamics.
- Experience in data-assimilation and ocean modelling.

- Advanced programming skills in Fortran (F90 and F77) and experience with version control systems (like CVS).
- Experience with Unix/Linux including shellsript programming.
- It would be advantageous if the applicant has experience with HighPerformance Computing (HPC) and parallelisation on both distributed (MPI) and shared memory (OpenMP) systems.
- Good skills in oral and written English.
- Curious, open minded, with a good sense of humour and the capacity of working closely together with colleagues to solve concrete tasks.

Employment and salary will be according to the Danish Law and Agreements. It will be possible to apply for an addition to the basic salary. The position is full time and based on a flexible working week of 37 hours including a paid lunch break, and 6 weeks of paid vacation annually after one calender year of employment. The starting date is October 1st, 2015 or as soon as possible after this date. You can read more about us at www.dmi.dk.

The DMI wants to contribute to equal opportunities for women and men. We encourage all qualified candidates to apply regardless of gender, age or ethnic background.

You will be employed under the Ministry of Energy, Supply and Climate.

For further details about the position please contact Head of the Model Development, Ole Krarup Leth, telephone +45 39 15 72 23, or by e-mail okl@dmi.dk (not present from July 27th to August 10th) or Head of the Department of Research and Development, Katrine Krogh Andersen, telephone +45 39 15 74 94, or by email kka@dmi.dk.

The application must contain your motivated cover letter, a curriculum vitae (including documentation of the applicant's educational history) and a complete list of published works. Relevant scientific works that the applicant wishes to be taken into account should be enclosed (a maximum of 3). Other material documenting research and other relevant activities may also be enclosed.

The application should be received before 24:00 Danish local time, at the August 31st, 2015. We expect to conduct the interviews during first half of September.

Please use the below link "Søg stillingen" (Apply for Position) and follow the instructions.

DMI is an institution under the Ministry of Energy, Supply and Climate and carries out forecast and warning services as well as continuous monitoring of weather, climate and related environmental conditions in the atmosphere, on land and at sea, in order to secure human life, equipment and property, and to create a basis for economic and environmental planning in the society. Furthermore, R&D is carried out within the DMI working areas.

Søg stillingen