



Faculty/Department: Mathematics, Informatics and Natural Sciences/

Seminar/Institute: Institute of Oceanography, part of CEN

Universität Hamburg invites applications for a Research Associate in accordance with § 28 (3) of Hamburg's Higher Education Act (HmbHG*). The position commences on April 1st, 2015, or later.

It is remunerated at the salary level TV-L 14 and calls for 39 hours per week.

The short-term nature of this contract is based upon § 2 of the Academic Short-Term Labor Contract Act (WissZeitVG). The term is fixed to 5 years; both, full, or part-time is possible.

The University aims to increase the number of women in research and teaching and explicitly encourages women to apply. Equally qualified female applicants will receive preference in accordance with Hamburg's Higher Education Act (HmbHG).

Tasks:

Duties include academic services in the relevant department or institute. Research associates can also pursue independent research and further academic qualifications.

Area(s) of Responsibility:

The applicant will work on the development of the next generation of the seasonal prediction system, in particular the initialization from observations in different components of the climate system. Currently, the seasonal prediction system is based on the MPI-ESM coupled model, but within the foreseeable future, we envision a transition to the ICON model. The model adaptation will be conducted with in close cooperation with the Max Planck Institute for Meteorology, where both MPI-ESM and ICON are developed. There will also be close collaboration with the DWD (Deutscher Wetterdienst), where the (pre-)operational system is maintained, and ICON already used for forecasts in the atmosphere.

The successful applicant with a strong background in climate modelling and geophysical fluid dynamics will work in the research group 'Climate System Data Assimilation', and the working group on seasonal prediction. The working group is a collaboration between the Max Planck Institute for Meteorology, the DWD (Deutscher Wetterdienst), and the Institute of Oceanography. The group's objective is the development of seasonal prediction system based on the coupled climate model MPI-ESM, forming the German contribution to the multi-model ensemble EUROSIP.

The applicant is expected to participate in the supervision and teaching of students with up to 4 hours/week.

* Hamburg Higher Education Act



Requirements:

A university degree in a relevant subject plus doctorate.

These degrees should have been obtained in meteorology, oceanography, applied mathematics, physics, or computational science.

In addition, we are looking for the following skills:

- Profound interest in understanding the coupled climate system, and demonstrated knowledge of the dynamics of one or more components of the climate system.
- Demonstrated experience in the development and implementation of climate models, or individual components.
- Demonstrated knowledge in climate prediction, data assimilation and/or mathematical algorithm development will be of advantage.
- Demonstrated knowledge and skills in the computer languages Fortran and/or C/C++.
- Proficiency in working with, and developing applications for, the UNIX operating system environment.
- Ability to conduct independent work.
- Strong oral and written communication skills.
- Excellent organizational skills.

Severely disabled applicants will receive preference over equally qualified non-disabled applicants.

For further information, please contact Johanna Baehr, Professor for Climate System Data Assimilation, johanna.baehr@zmaw.de, phone +49 40 42838 7736 or consult our website at <http://www.clisap.de/coupled-assimilation> .

Applications should include a cover letter, curriculum vitae, and copies of degree certificate(s). The application deadline is February 15th, 2015, the deadline will be extended until the position is filled. Please send applications to: office.clisap@zmaw.de, Code/Reference: Post-doc Baehr. Please make sure your application consists of 1 PDF file.