

**Faculty/Department:** Mathematics, Informatics, Natural Sciences/Department of Geosciences  
**Seminar/Institute:** Institute of Oceanography, Center for Earth System Research and Sustainability (CEN)

Universität Hamburg invites applications for a Research Associate for the project **“Blue-Action, which has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 727852”** in accordance with Section 28 subsection 3 of the Hamburg higher education act (Hamburgisches Hochschulgesetz, HmbHG). The position commences on 01<sup>st</sup> December 2018, or on mutual agreement.

It is remunerated at the salary level TV-L 13 and calls for 39 hours per week.

The fixed-term nature of this contract is based upon Section 2 of the academic fixed-term labor contract act (Wissenschaftszeitvertragsgesetz, WissZeitVG). The term is fixed for a period of 24 months, if started by February 1<sup>st</sup>, 2019.

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 the Hamburg act on gender equality (Hamburgisches Gleichstellungsgesetz, HmbGleiG).

**Responsibilities:**

Duties include academic services in the project named above. Research associates can also pursue independent research and further academic qualifications.

**Specific Duties:**

The applicant will work within WP1 "Improving seasonal long range forecast skill of risks for hazardous weather and climate events" of the H2020project Blue-Action. The work will focus on the analysis of atmospheric conditions at subseasonal to seasonal timescales, in particular the conditions under which Arctic extreme events such as polar lows might form. Aim of the work is to improve our understanding of the variability and in turn the predictability of such conditions. The applicant is expected to extensively use the seasonal prediction system based on the MPI-ESM coupled model, but also conduct additional ensemble hindcast simulations. The applicant's work should take advantage of on an already existing strong collaboration within the project, and with the DWD (German Weather Service), where the operational system is maintained,

The successful applicant with a strong background in climate modelling, climate variability and predictability will work in the research group 'Climate Modelling' at the Institute of Oceanography, and the working group on seasonal prediction. The working group is a collaboration between the Max Planck Institute for Meteorology, the DWD, and the Institute of Oceanography.

The group's objective is the continuous development of seasonal prediction system based on the coupled climate model MPI-ESM.

**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 analysis of climate variability and predictability in at least one component of the climate system at (sub-)seasonal-to-decadal time scales.
- Demonstrated experience in the statistical analysis of large ensemble (hindcast) simulations, including the quantification of predictive skill at (sub-)seasonal-2-decadal timescales will be of strong advantage.
- Demonstrated experience in using earth system models, in particular conducting a multitude of simulations.
- Ability to conduct independent work.
- Strong technical skills, including the visualization of climate simulations; 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 ([johanna.baehr@uni-hamburg.de](mailto:johanna.baehr@uni-hamburg.de)) or consult our website at <https://www.ifm.uni-hamburg.de/en/workareas/climatemodelling.html>.

Applications should include a cover letter, curriculum vitae, and copies of degree certificate(s). The application deadline is October 31st, 2018, the deadline will be extended until the position is filled. Please send applications to: [johanna.baehr@uni-hamburg.de](mailto:johanna.baehr@uni-hamburg.de). Please make sure to send complete applications and that your application consists of 1 PDF file.