As a University of Excellence, Universität Hamburg is one of the strongest research universities in Germany. As a flagship university in the greater Hamburg region, it nurtures innovative, cooperative contacts to partners within and outside academia. It also provides and promotes sustainable education, knowledge, and knowledge exchange locally, nationally, and internationally.

The Faculty of Mathematics, Informatics and Natural Sciences, Department of Geosciences, Institute of Oceanography invites applications for a

RESEARCH ASSOCIATE FOR THE PROJECT "CLICCS - CLIMATE, CLIMATIC CHANGE, AND SOCIETY" A6: EARTH SYSTEM VARIABILITY AND PREDICTABILITY IN A CHANGING CLIMATE
- SALARY LEVEL 13 TV-L -

The position in accordance with Section 28 subsection 3 of the Hamburg higher education act (Hamburgisches Hochschulgesetz, HmbHG) commences on 1. October 2019.

This is a fixed-term contract in accordance with Section 2 of the academic fixed-term labor contract act (Wissenschaftszeitvertragsgesetz, WissZeitVG). The term is fixed until 31. December 2025. The position calls for 39 hours per week.

CLICCS is an ambitious research program at Universität Hamburg and its partner institutions. Funded by the German Research Foundation (DFG), it is part of Germany's Excellence Strategy.

The program aims to understand climate changes, taking into account internal variability, extreme events, and unexpected side effects, addressing the natural and social spheres as well as their interactions. Thus CLICCS' overarching research question is: which climate futures are possible and which are plausible? CLICCS will investigate how climate changes and how society changes with it, thereby feeding back on climate. It will identify those climate futures that are consistent with both climate and social dynamics (possible), and those we expect to unfold with appreciable probability (plausible).

CLICCS offers accompanying measures to help scientists thrive through all stages of their careers.

RESPONSIBILITIES:

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

SPECIFIC DUTIES:

Within A6, we will assess changing variability and limited seasonal-to-decadal predictability in physical and social contexts in ensemble simulations with a focus on North Atlantic/Europe and on the analysis of uncertainties due to natural variability and limited sea-sonal-to-decadal predictability. The applicant is expected to contribute to the ongoing development of seasonal-to-decadal prediction development and to perform large ensemble hindcast experiments in seasonal and decadal prediction systems, which will permit enhanced statistical analyses. In particular, we expect an improved characterization of uncertainties in natural variability, hindcasts and forecasts by tailoring the choice of variables and metrics to those required within societal contexts, such as considering the perception of uncertainties in the communication of possible evolution of climate in the near-term future. The work will be conducted in close collaboration with project B5 "Coping with Climate-Related Uncertainties and Variabilities" to investigate how climate-relevant individual and policy decisions depend on the perceived and experienced uncertainties in the variability and predictability of the climate system.

REQUIREMENTS:

A university degree in a relevant subject plus a doctorate 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.
- Profound interest in conducting interdisciplinary research, in particular on the question how uncertainties and variabilities in natural and social processes interact.
- 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 or hindcast simulations, including the quantification of uncertainties and/or predictive skill.
- Demonstrated experience in using earth system models, in particular conducting a multitude of simulations.
- Evidence of developing a track record of internationally recognized research as documented by publications in peer reviewed international journals, commensurate with the candidate`s career stage.
- Strong technical skills, including the visualization of climate simulations; strong oral and written communication skills.
- Excellent organizational skills.

The University aims to increase the number of women in research and teaching and explicitly encourages qualified women to apply. Equally qualified female applicants will receive preference in accordance with the Hamburg act on gender equality (Hamburgisches Gleichstellungsgesetz, HmbGleiG).

Qualified disabled candidates or applicants with equivalent status receive preference in the application process.

For further information, please contact contact johanna.baehr@uni-hamburg.de or andreas.lange@uni-hamburg.de or consult our website at https://www.cliccs.uni-hamburg.de/.

Applications should include a cover letter, a curriculum vitae, a brief research statement, the contact information for at least two potential references, and copies of degree certificate(s) submitted **as one single PDF file**. The research statement should not exceed one-to-two pages and outline a research program with a focus on changing variability and limited predictability in both physical and social contexts. Applications without such a research statement will not be considered.

Applications should include a cover letter, a tabular curriculum vitae, and copies of degree certificate(s). Please send applications by 3. September 2019 to: cliccs-applications.cen@uni-hamburg.de.

Please do not submit original documents as we are **not** able to return them. Any documents submitted will be destroyed after the application process has concluded.