GEOMAR Helmholtz Centre for Ocean Research Kiel is a foundation of public law jointly financed by the Federal Republic of Germany (90 %) and the state of Schleswig-Holstein (10 %) and is one of the internationally leading institutions in the field of marine sciences. Currently GEOMAR disposes over an annual budget of approx. 80 million Euro and has approx. 1000 employees.

The research unit Marine Meteorology of the research division Ocean Circulation and Climate Dynamics is offering a position as

**Postdoc (m/f/d) in climate modelling**

starting on 1st July 2020. Earlier or later start can be considered.

**Job Description**

We are looking for a Postdoctoral scientist to conduct research on climate modelling focusing on Southern Ocean processes. It is part of the large-scale H2020 SO-CHIC project (2019-2023), in which 15 institutions across Europe participate (http://www.sochic-h2020.eu). The overall objective of SO-CHIC is to understand and quantify the variability of heat and carbon budgets in the Southern Ocean through an investigation of the key processes controlling exchanges between the atmosphere, ocean and sea ice using a combination of observational and modelling approaches.

You will investigate the impact of the Southern Ocean polynya, particularly over the Weddell Sea, on the coupled climate system. The approach will be based on the analysis of the state-of-the-art climate model beyond IPCC-class, which resolves mesoscale eddies over the Southern Ocean. Notably, you will run or analyse high-resolution AGCM and a global coupled model incorporating a nested oceanic grid refinement in the Weddell sector.

You will be supervised by Wonsun Park in close collaboration with a FOCI modelling team at GEOMAR and Dr. D. Ferreira at University of Reading.

**Qualification**

- A PhD in natural sciences (e.g. Oceanography, Meteorology, Physics)
- Experience in coupled modelling
- Knowledge in dynamics of the atmosphere and the oceans, and in atmosphere-ocean interactions with publication records
- Experience with OpenIFS, NEMO, OASIS3-MCT, or AGRIF are desirable
- Very good programming skills and experience with supercomputer (e.g. Fortran, Unix/Linux, MPI, HPCs)
- Ability to work in a team
- Fluency in English

The position is available for 3 years. The salary depends on qualification and could be up to the class 13 TVöD-Bund of the German tariff for public employees. This is a full-time position. Part-time employment is though generally possible in the context of suitable working time models and provided that the full-time position is filled.

GEOMAR Helmholtz Centre for Ocean Research Kiel seeks to increase the proportion of
female scientists and explicitly encourages qualified female academics to apply.

GEOMAR is an equal opportunity employer and encourages scientists with disabilities to apply. Qualified disabled applicants will receive preference in the application process.

Please send your application for this post via email in a single pdf-file mentioning the keyword "SO_CHIC" in the subject line. Please send your application not later than May 3rd, 2020 to the following email address:

bewerbung@geomar.de

As soon as the selection procedure has finished, all your application data will be removed according to data protection regulation.

For further information regarding the position and research unit please contact Dr. Wonsun Park (wpark@geomar.de).

Please do not contact us by phone about the present state of procedures. However, we will answer all your questions if you send us an e-mail to bewerbung@geomar.de. In doing so, please refer to the keyword.

GEOMAR is a member of the Helmholtz Association and the German Marine Research Consortium (KDM). For further information please visit www.geomar.de or www.helmholtz.de.

GEOMAR is committed to a non-discriminatory personnel selection. Our job advertisements address all people.

The TOTAL E-QUALITY award is presented to GEOMAR for efforts in terms of human resource management aimed at providing equal opportunity.