

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 units Marine Meteorology and Ocean Dynamics of the research division Climate Dynamics and Ocean Circulation are offering a position as

Postdoc (m/f/d) on high-resolution coupled modeling and storyline simulations

starting on January 1st 2022 and extending to December 31st 2024.

Job Description

The goal is to better understand and display the implications of accelerated melting of the Greenland Ice Sheet on European climate by means of storyline simulations using a climate model with an eddying North Atlantic. The position is part of the multi-institutional, innovative project SCENIC, an effort by a community of Helmholtz centres to study how extreme events would unfold in different climates, thereby complementing classical climate scenario methods. Focussing on Europe, SCENIC will tackle the following questions: Which processes determine extremes, and how will such processes change? What is the role of thermodynamic vs dynamic drivers of change? How do extremes unfold with major Greenland melting events or an Atlantic Meridional Overturning Circulation weakened by global warming?

Both departments, Marine Meteorology and Ocean Dynamics at GEOMAR have long-standing experience in coupled climate and ocean modeling from coarse-resolution global models to regionally sub-mesoscale resolving embedded nests. A main interest is in processes determining Atlantic variability of the 20th and 21st century. We are an engaged, interdisciplinary group of scientists enthusiastic about identifying mechanisms driving ocean and climate variability and developing new modeling solutions.

Responsibilities

- Running numerical simulations with an established coupled global climate model
- Conducting original research using the model output
- Disseminating the research in international journals and conferences

Required qualification

- PhD in meteorology or oceanography or equivalent
- experience with climate models
- demonstrated experience in publishing
- proficiency in spoken and written English

Beneficial additional qualifications:

- experience with ECHAM, OpenIFS, and/or NEMO
- experience in running atmosphere, ocean, or coupled climate models
- Knowledge of climate processes relevant to the subpolar/midlatitude North Atlantic region
- skills in Fortran, or Python, or MATLAB

- ability to work in a group

The position is available for a funding period until December 31st 2024. 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 and the position can be split.

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, containing CV, letter of motivation (1 page maximum), publication list, university degree/PhD certificate, and contact information for 2 references via email in a **single pdf-file** mentioning the keyword "**SCENIC**" in the subject line. Please send your application not later than **October 29th, 2021** 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 Prof. Dr. Joakim Kjellsson (jkjellsson@geomar.de) and Dr. Torge Martin (tomartin@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. We expressly renounce the submission of application photos.



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