GEOMAR
Helmholtz-Zentrum für Ozeanforschung Kiel

GEOMAR Helmholtz Centre for Ocean Research Kiel is a foundation under public law jointly financed by the Federal Republic of Germany (90%) and the State of Schleswig-Holstein (10%). It is one of the internationally leading institutions in the field of marine research.

Through our research and our commitment to the transfer of knowledge and technology, we contribute significantly to the preservation of the function and protection of the ocean for future generations. The research group OSTIA – "The ocean's role in mitigating climate change" works to improve our understanding of the legacy of ocean uptake of anthropogenic carbon and heat for future climate, and of the importance of the ocean's "weather" (ocean mesoscale phenomena) therein. The position is funded by the German Research Foundation project CHOICE – "Ocean heat and carbon storage under ambitious emission mitigation: Uncertainties due to the representation of ocean mesoscale eddies in a non-eddying Earth system model".

The research unit Marine Biogeochemical Modelling of the research division Marine Biogeochemistry is offering a position as a

Postdoctoral researcher (m/f/d) in ocean and earth system modelling

starting as soon as possible.

Job Description

- The main tasks will include modifying mesoscale eddy parameterizations in an Earth system model, implementing centennial climate change simulations with sustained net-negative CO2 emissions, and analyzing, presenting, and publishing scientific results.
- The postdoctoral position will be integrated into a larger ocean and Earth system modeling team, along with international project partners who are concerned with the response of the ocean to climate change. The Biogeochemical Modelling research unit at GEOMAR is a group with diverse research interests in marine biogeochemistry and climate, including the anthropogenic perturbation of the global carbon cycle.

Qualification

Requirements

- Applicants must hold a PhD in ocean or climate sciences, or a related field
- Experience working with ocean or earth system models, or similar models
- A background in analyzing large data sets and visualizing data using Python, MATLAB, or equivalent
- very good writing, presentation, and communication skills in English

Beneficial

- A background in the ocean uptake of carbon and heat or mesoscale eddy parameterizations
- Experience with high-performance computing facilities and knowledge of Fortran

At a workplace, directly on the Kiel Fjord with many leisure and recreational opportunities, we offer you:

- Good conditions for work-life balance: We offer, among other things, the possibility of mobile working and individual working time arrangements, vacation courses for the children of our employees, and good support in finding a place in a daycare center at the Kiel site

- Support services for professional and personal life situations
- An exciting work environment with the opportunity to provide important impetus for the development of sustainable solutions
- Exciting topics in an international environment
- Work in the field of marine and climate research, a forward-looking area with social significance
- 30 vacation days + additional time off at Christmas Eve and New Year's Eve
- Company pension plan and capital-forming benefits

The position is available for a funding period of up to three years from the start of the position. The salary depends on qualification and could be up to the class E13 TVöD Bund of the German tariff for public employees. This is a full-time position. The position can be split. Flexible working hours are possible in general.

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 (CV, including names and contact information of up to 3 references, PhD certificate, 1-page motivation letter; written in English) **not later than April 20th, 2025** under the following link:

Online application

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 contact Ivy Frenger (ifrenger@geomar.de).

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 “CHOICE”.

For further information on GEOMAR Helmholtz Centre for Ocean Research Kiel or the Helmholtz Association, please visit www.geomar.de or www.helmholtz.de.

GEOMAR is committed to an objective and 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.