The **MARUM** - Center for Marine Environmental Sciences - at the **UNIVERSITY OF BREMEN** is offering – under the condition of job release –

the position of a

Research Assistant (f/m/d)
(Postdoc position)
German federal salary scale 13 TV-L

with **100% of the full working time per week**, limited for the duration of **24 months** - until 30.06.2024 at the longest - starting at **July 1, 2022**,

The position will be at the DFG funded Collaborative Research Centre TRR 181 "Energy Transfers in Atmosphere and Ocean", project W2 "Scattering and Refraction of Low-Mode Internal Tides by Interaction with Mesoscale Eddies".

Job description

Internal waves in the ocean are generated by the interaction of barotropic tides with seafloor topography and by the wind field. They are crucial for ocean interior mixing and the energy pathways since their lowest modes carry a large part of the energy of the internal wavefield. Scattering and refraction of low-mode internal tides by interactions with mesoscale eddies provides a direct and important energetic link between mesoscale processes and the internal wavefield. Despite their relevance for the distribution and intensity of mixing in the ocean, these processes have not been well studied or understood. The project aims to change this by quantifying the eddy-induced changes of internal tides in the mid-latitude ocean. The basis for the work will be time series observations from moorings in the South Atlantic. The interpretation of these data will be combined with both theory-based statistics and the output of a dedicated high-resolution model simulation.

We are searching for a researcher with a keen interest in observational physical oceanography and its implications for theory and modelling. The successful candidate will be part of the Physical Oceanography group at the University of Bremen, working under the supervision of Prof Dr. Monika Rhein, with a close scientific cooperation with Prof Dr. Dirk Olbers (Physical Oceanography, University of Bremen), and Prof. Dr. Jin-Song von Storch (Max Planck Institute for Meteorology, Hamburg and University of Hamburg).

We offer a position in an interdisciplinary team at the Institute for Environmental Physics in the lively North German city of Bremen. The successful candidate will also be a member of the project's research training group ENERGY which provides dedicated training courses and mentoring to support career development.

Requirements

- Academic scientific university degree (master's degree) and PhD degree in physical oceanography, meteorology, physics, or related field
- Skills in spectral analysis, and scientific computer programming, e.g. Python, Matlab or similar

- Solid background in physical oceanography and fluid dynamics, esp. small scale processes and turbulence
- Experience in handling of deep sea instrumentation and analysis of large data sets will be advantageous
- Willingness and ability to participate in sea-going field work
- Applicants should be proficient in English (CEF-Level B2), have excellent skills in scientific writing, and enjoy working in an international and interdisciplinary team

General hints

The University of Bremen has received a number of awards for its gender and diversity policies and is particularly aiming to increase the number of female researchers. Applications from female candidates, international applications and applications of academics with a migration background are explicitly welcome. Disabled persons with the same professional and personal qualifications will be given preference.

For more information on the position, please contact Prof. Monika Rhein (mrhein@uni-bremen.de), or visit www.trr-energytransfers.de for general information about the project.

Please send applications including standard documentation (CV, copies of diplomas, letter of motivation) and names of at least two references with reference to job advertisement number **A100/22** to

Prof. Dr. Monika Rhein
Universität Bremen
Postfach 33 04 40
28334 Bremen

Or as a single PDF file (max. size 8 MB) by e-mail to mrhein@uni-bremen.de**.** The application deadline is **May 2, 2022**.

For a paper-based application, please make sure to only send document copies as all received application material will be destroyed after the selection process.