

The MARUM – Center for Marine Environmental Sciences at the University of Bremen is looking for a

Research Assistant (PhD position) (f/m/d)
German pay scale E13 TV-L (75%)

in the framework of the DFG-funded Transregional Collaborative Research Center TRR 181 “Energy Transfers in Atmosphere and Ocean,” project L3: “Meso-to Submesoscale Turbulence in the Ocean.” The position will be filled as soon as possible and end after four years.

The contract is connected with a qualification goal (PhD degree) according to §2 (1) WissZeitVG (Academic Fixed-Term Contract Act). Only applicants who have sufficient qualification periods left according to §2 (1) WissZeitVG can be considered.

Job description

Large-scale geophysical climate models are based on subgrid-scale models and subgrid parametrizations. These compensate for lacking resolution in measurements as well as missing calculations for long-time simulations. The goal of this project is to bring together mathematics and observations to increase understanding of the process, create reduced models for the observed anomalous diffusion in drifter experiments, and embed these in a larger mathematical context.

For this project, we are seeking a researcher (f/m/d) with great interest in mathematical analysis and its implications for climate modeling. The selected applicant will work at the Institute for Dynamical Systems, which is led by Prof. Dr. Marc Keßeböhmer and Prof. Dr. Anke Pohl (both members of MARUM’s TRR181) in Faculty 3 – Mathematics at the University of Bremen. The completion of a PhD degree as part of this project is desired. The project work will take place in close collaboration with Dr. Maxim Kirsebom (Faculty of Mathematics, University of Bremen), Dr. Maren Walter (Institut for Environmental Physics and MARUM, University of Bremen), Dr. Alexa Griesel and Dr. Julia Dräger-Dietel (Institute of Oceanography, Universität Hamburg).

You will be a member of the research training group ENERGY in the collaborative research center TRR181, which is spread across leading locations for climate research in Germany and offers a tailored course and mentoring program as well as career training. The TRR181 also supports international conference visits and longer research stays.

Your tasks include

- Supporting the research group in developing and expanding the research focus
- Supporting the research group with the organization of workshops and conferences
- Supporting organizational tasks of the TRR
- Teaching courses in the subject mathematics

Requirements

- Completed scientific university degree (master’s degree/university diploma or comparable) in mathematics with a focus on the theory of dynamical systems or similar area,
- Solid knowledge of analysis, functional analysis and probability theory,
- Strong interest in climate modeling and oceanography
- Applicants should be proficient in English, have very good academic writing skills, and enjoy working in an international and interdisciplinary team and environment.

General Information

Open to unconventional approaches in research and teaching, the University of Bremen has retained its character as a place of short distances for people and ideas since its founding in 1971. With a broad range of subjects, we combine exceptional performance and innovative potential. As an ambitious research university, we stand for research-based learning approaches and a pronounced interdisciplinary orientation. We actively pursue international scientific cooperation in a spirit of global partnership.

Today, around 23,000 people learn, teach, research and work on our international campus. In research and teaching, administration and operations, we are firmly committed to the goals of sustainability, climate justice and climate neutrality. Our Bremen spirit is expressed in the courage to dare new things, in supportive cooperation, in respect and appreciation for each other. With our study and research profile and as part of the European YUFE network, we assume social responsibility in the region, in Europe and in the world.

The university is family-friendly, diverse and sees itself as an international university. We therefore welcome all applicants regardless of gender, nationality, ethnic and social origin, religion/belief, disability, age, sexual orientation and identity.

As the University of Bremen intends to increase the proportion of female employees in science, women are particularly encouraged to apply.

Disabled applicants will be given priority if their professional and personal qualifications are essentially the same.

Contact:

Prof. Dr. Marc Keßeböhmer, mhk@uni-bremen.de.

Please send your application (cover letter, CV, at least two letters of recommendation, and copies of your degree certificates) with reference to the **job advertisement number A248-24** by **22.08.2024** as a single PDF file by e-mail to bewerbung-a24824@marum.de

or by mail to

Prof. Dr. M. Keßeböhmer
Universität Bremen
Fachbereich 3
Bibliothekstraße 5
28359 Bremen

We kindly ask you to send all documents as copies and not originals, as we cannot return them. They will be destroyed after the selection process has been completed. Any application costs cannot be reimbursed.