

Job posting (Phy 08/2024)

The Leibniz Institute for Baltic Sea Research Warnemünde (IOW) has a temporary vacancy from Jan 06, 2025

PhD position in the Department of Physical Oceanography

for a period of 3 years and a percentage of 75% (30h/week). Remuneration is paid in accordance with the *Tarifvertrag für den öffentlichen Dienst der Länder* (TV-L, Federal States Public Sector Collective Agreement) salary scale at level 13.

Female applicants are given preference in the case of equal qualifications and suitability.

Who are we?

IOW is an independent marine research institute of the Leibniz Association, which is committed to equal opportunities, family friendliness and the compatibility of work and family life. Our research focuses on the coastal and marginal seas, in particular the Baltic Sea. Our four departments of Physical Oceanography and Instrumentation, Marine Chemistry, Biological Oceanography and Marine Geology work together on an interdisciplinary basis as part of a joint research program.

What will be your tasks?

This position will be part of the large national project cluster [TRR181 “Energy Transfers in Atmosphere and Ocean”](#), funded by the German Research Foundation (DFG), in which physical oceanographers, atmospheric scientists and mathematicians from different universities and research institutes collaborate to develop the next generation of energy-consistent climate models.

This PhD project will contribute to subproject L4 focusing on “Multiscale Ocean-Atmosphere Coupling”. You will investigate the impact of upper-ocean turbulence in the tropical ocean on local and global atmosphere-ocean feedbacks and their impact on processes relevant for climate simulations. In close collaboration with our project partners from the Max Planck Institute for Meteorology in Hamburg, this project will be based on global numerical simulations with a coupled atmosphere-ocean model (ICON). A new generation of ultra high-resolution (km-scale) simulations will be used to explore the interaction of physical processes in the ocean and atmosphere in a parameter range that is only just becoming accessible.

All PhD students in the TRR181 project cluster will be part of a research training group, providing numerous possibilities for additional trainings, workshops, exchange, and support. While the PhD position announced here will be located at IOW, you will also have the opportunity to visit relevant partner institutions, annual retreats and spring/summer schools jointly with other PhD students and researchers in the project.

What do we expect from you?

An excellent MSc degree in Physical Oceanography, Meteorology, Physics, Mathematics or a related field is required. We also expect very good English language skills, good programming skills and the ability to work in a team. Preferable would be a sound background in geophysical fluid dynamics, experience in numerical ocean or atmospheric modelling, and experience with numerical data analysis. Good scientific presentation, writing, and communication skills are also an advantage.

What does IOW offer?

IOW offers you a varied workplace with flexible working models, for example the option of working from home or remotely. We provide an excellent research infrastructure with modern laboratory and office equipment, including access to our own research vessel. Warnemünde, a district of the university city of Rostock, is a lively seaside resort with a maritime flair and direct access to the long sandy beaches on the Baltic Sea coast.

How do we promote equal opportunities ?

Our job offers are aimed at all people regardless of their gender. Research benefits from a diverse working environment, which is why we have signed the Diversity Charter. IOW aims to specifically promote women in areas where they are underrepresented. For this purpose, the institute has given itself a [plan to promote equality](#) and has repeatedly been awarded the [Total E-Quality award](#) for its commitment. You can find an overview of our measures for equal opportunities and for improving the compatibility of work and family on our [website](#).

We give preference to applications from disabled persons with equal professional and personal suitability. Please mention the disability or equality in your letter of application and enclose a copy of the relevant certificates.

How to apply?

Please send us your application documents with cover letter, CV, copies of your certificates, description of relevant activities and experiences as well as references.

We look forward to receiving your application as a single PDF file, quoting the keyword: **Phy 08/2024** by **October 20, 2024**

to:

bewerbung.physik@io-warnemuende.de

or

Leibniz Institute for Baltic Sea Research Warnemünde

Human Resources Department

Seestraße 15

18119 Rostock

Germany

The interviews are expected to take place on **Nov 04-08, 2024**.

Unfortunately, we cannot cover your application and travel costs.

For further information, please contact:

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