

Job posting (Phy 03/2024)

The Leibniz Institute for Baltic Sea Research Warnemünde (IOW) has a temporary vacancy starting 01.07.2024

Postdoctoral position in the Department of Physical Oceanography

for a period of 4 years and a percentage of 100% (40h/week), subject to the funding of the project.

Remuneration is paid in accordance with the Tarifvertrag für den öffentlichen Dienst der Länder (TV-L , Public Sector Collective Agreement on Länder) salary scale at level 13. The position can also be filled on a flexible part-time basis with at least 30h/week.

Who are we?

The IOW is an independent research institute of the Leibniz Association for which equal opportunities, family friendliness and work-life balance are very important. Our research focus is on the coastal and marginal seas, especially the Baltic Sea. The staff of the four sections Physical Oceanography and Instrumentation, Marine Chemistry, Biological Oceanography and Marine Geology works interdisciplinary within a joint research programme.

What will be your tasks?

In the framework of the Collaborative Research Centre (CRC) TRR 181 “Energy Transfers in Atmosphere and Ocean”, numerical ocean model analysis methods are to be developed in the subprojects M5 “Reducing Spurious Mixing and Energetic Inconsistencies in Realistic Ocean-Modelling Applications” and S1 “Diagnosis and Metrics in Climate Models”. For details of past and ongoing work in these subprojects, please see the subproject descriptions at www.trr-energytransfers.de. Funding for the planned activities has been requested.

The task of this work will be to develop numerical ocean model analysis methods to quantify mixing and overturning circulation as well as their quantitative connection. Starting from theories for tracer mixing, the ultimate goal is to develop an analysis method for diapycnal mixing and circulation and to investigate their interdependence. Aspects of both physical and numerical mixing need consideration. During the first two years of the project, experimental idealised model setups may be used to develop the methods (subproject M5), whereas in project years three and four the methods will be implemented and applied in unstructured-grid global ocean models (subproject S1).

What do we expect from you?

The successful candidate must have a solid background in Theoretical Oceanography and the numerics of ocean models as well as a PhD degree in Physics, Mathematics, Physical Oceanography or a related field. We expect profound work experience in the development and analysis of ocean models, knowledge of computing languages such as FORTRAN and Python, and proficiency in the use of high-performance computers. We search for a scientist with an international research profile proven by an excellent track record of high-level publications and conference contributions. Good knowledge of the English language, experience as project leader and the willingness to work in teams is mandatory. Experience in supervision of Bachelor, Master and PhD students is welcome.

What does the IOW offer?

The IOW offers you a varied workplace in the immediate vicinity of the Baltic Sea ([Work at sea](#)) with flexible working arrangements, e.g. the possibility of working from home or remotely and a company health management. A very good infrastructure with modern laboratory and office equipment, including on our own research vessel, form the framework for the best working conditions.

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 ([plan for the equal opportunities committee at the IOW](#)) and has repeatedly been awarded the Total E-Quality award for its commitment ([website TOTAL E-QUALITY e. V.](#)) Female applicants are given preference in the case of equal qualifications and suitability, as the position belongs to a working group in which women are underrepresented. 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 certificate.

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, quoting the

keyword: **Phy 03/2024** by **05.05.2024**

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 **15.05.2024**.

Unfortunately, we cannot cover your application and travel costs.

For further information, please contact:

Prof. Dr. Hans Burchard (hans.burchard@io-warnemuende.de)