

Job posting (PHY 01/2024)

The Leibniz Institute for Baltic Sea Research Warnemünde (IOW) has a vacancy (100%, 40h/week)

Postdoc position (tenure track) in the department of physical oceanography and instrumentation

In case of best fulfilment of the requirements (especially scientific performance (publications and other scientific achievements), experiences in other institutes and abroad, positive external review) an immediate permanent position is possible. Otherwise, a tenure-track procedure (up to 3 years with extension option up to 5 years) is intended to develop the missing competencies. The prerequisite for this is, that qualification times according to § 2 WissZeitVG are still available or a temporary employment based on § 14 Abs. 2 TzBfG is possible.

Remuneration is paid in accordance with the “Tarifvertrag für den öffentlichen Dienst der Länder” (TV-L) salary scale at level EG 13.

The position might be part-time.

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.

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.



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.](#)). 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.

What will be your tasks?

In close collaboration with other scientists and scientific programmers at the department, the IOW Regional Climate System Model (IOW-RCSM) for the Baltic Sea region will be further developed and applied for long-term simulations. The objective is to examine how the physical processes have changed in coastal and marginal seas like the Baltic Sea in the course of decades to millennia. The information about past long-term changes from long-term observations and model simulations will be used to develop plausible scenario simulations for the future of the Baltic Sea and other coastal and marginal seas. Especially the question how coastal and marginal seas may react on anthropogenic climate change and other human influences such as eutrophication shall be addressed.

Since the influence of the atmosphere is of great importance for the changes in shallow coastal and marginal seas such as the Baltic Sea, the jobholder will strengthen the IOW team with her/his expertise in atmospheric processes and evaluate and improve the IOW-RCSM. Furthermore, the jobholder will conduct research in particular on the exchange fluxes between atmosphere, sea ice and ocean, on the influence of the large-scale circulation on the Baltic Sea region and on climate change in the Baltic Sea region. In addition, studies on changes in extreme value events, ensemble studies on the uncertainty assessment of

projections with coupled models and climate impact research for the Baltic Sea and other coastal and marginal seas shall be carried out.

You will publish your findings in scientific publications and present them at national and international conferences.

What do we expect from you?

You have a researcher personality, and your desire to understand our environment is driven by scientific curiosity. Applicants must have a university degree (master/diploma) and a PhD in meteorology, oceanography or a related natural or geoscientific discipline with pronounced physical-mathematical components. The ability to work scientifically independent in a team and the willingness to carry out science related to the novel IOW [research programme 2024-2033](#) are mandatory. In particular, you will work with Research Area 2.2 and 2.3.

Further exclusion criteria are a documented experience in the

- (1) application and/or development of numerical climate models of the type `General Circulation Models´ for the atmosphere and/or the ocean;
- (2) use of high-performance computers;
- (3) application of operating systems such as Linux/Unix;
- (4) use of programming languages such as Fortran, C/C++, Python, etc.; and
- (5) visualisation and scientific analysis of large amounts of climate data.

Merit criteria are

- (1) high-quality scientific articles in appropriate numbers;
- and a very good knowledge of
- (2) the English language;
 - (3) statistical methods;
 - (4) the global climate system, climate variability and climate processes in the atmosphere, ocean, land surface and cryosphere;
 - (5) the climate of the Baltic Sea region; and
 - (6) regional and global climate projections.

Scientists who have recently completed a PhD thesis with excellent results (summa cum laude), have experience outside of IOW and meet the requirements listed above are particularly encouraged to apply. In this case, the quality of the publications submitted to fulfill the PhD thesis requirements will be evaluated as one of the criteria during the selection process.

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, a company health management system and qualification opportunities for the English/German language. 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 to apply?

Please send us your application documents with cover letter, CV, publication list, copies of your certificates, description of relevant professional activities, experiences and scientific perspectives as well as three references or the names of three referees whom we may contact.

We look forward to receiving your application, quoting the

keyword: **PHY 01/2024**

by 11 February 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 **11 March 2024**.

Unfortunately, we cannot cover your application and travel costs. An online participation in the job interview is possible.

For further information please contact:

Prof. Dr. Markus Meier, email: markus.meier@io-warnemuende.de

or visit our website: www.io-warnemuende.de

