

Job posting (Geo 04/2024)

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

PostDoc position in the Marine Geology Department

for a period of 3 years from 01.01.2025 and a percentage of 100 (40 h/week). 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 TV-L EG13.

The position is to be filled on a flexible part-time or full-time basis. The post is part-time but with a minimum of 30 hours per week or by 2 employees to be filled (job sharing).

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.

The position will be in the Marine Geophysics working group. The team with expertise in geology, geophysics and environmental sciences works, among other things, on the mapping of marine habitats using remote sensing and the optimisation of measurement and evaluation methods. The work is carried out in an international context as well as in co-operation with German federal authorities. One focus is the optimisation of geophysical mapping routines for habitats and sediments.

What will be your tasks?

The advertised position is part of the project OTC-SMART: Smart Marine Data Analysis in Real Time which is part of the BMBF-funded future cluster 'Rostock Ocean Technology Campus'. You will be working with project partners from Subsea Europe Services GmbH and the Federal Maritime and Hydrographic Agency Rostock on the development of innovative, artificial intelligence-driven software to support the hydroacoustic measurements of autonomous sensor platforms. The aim is to significantly increase the performance of the measurement system by analysing the seabed and all influencing system and environmental parameters in real time and to meet the requirements for data quality directly in the field. In particular, you will be involved in analysing the

workflows of marine data surveys in order to define requirements for the AI, to help design and implement the training data collection for the assistance software and to test the new software in practice. You can contribute and expand your expertise in marine habitat mapping. The new research results will be presented in international journals and conferences.

What will be your tasks?

The basic requirement is a successful university degree (Master's, Diploma or equivalent) in the fields of geosciences, geophysics, environmental sciences, geoinformatics or a comparable subject and a completed doctorate or a doctoral process in the final phase (doctorate must be available at the latest at the time of recruitment).

You should be very experienced in the acquisition, processing and data management of hydroacoustic data (especially multibeam echo sounder, side-scan sonar). Equally important are experiences in the interpretation of sediments, bedforms and marine habitats. Ideally, you have already worked with neural networks and are familiar with national and EU-wide mapping standards and rules. Programming skills are an advantage. We expect an interest in sea-going work and independent data acquisition in the Baltic Sea. Furthermore, a very good command of English is mandatory.

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: **Geo 04/2024**

by **27.10.2024**

to:

bewerbung.geologie@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 14.11.2024.

Unfortunately, we cannot cover your application and travel costs.

For further information, please contact:

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