Job posting (STB 07 /23)

The Leibniz Institute for Baltic Sea Research Warnemünde (IOW) offers a temporary vacancy as

Post Doc position in Marine Chemistry
Theme: Greenhouse gas emissions from the shallow coast of the Baltic Sea

for a period of 3 years and a percentage of 75% (30 h/week), envisioned to start at the earliest possible date. 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 TV-L EG13. The position is to be filled on a flexible part-time basis.

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?

The offered position is part of the new research focus “Shallow Water Processes and Transitions to the Baltic Scale” which will be established at IOW. In this framework, the physical and biogeochemical variability of shallow coastal waters is examined holistically from different angles.

Shallow nearshore areas of the Baltic Sea are highly dynamic areas in terms of transport and conversion of carbon-bearing compounds. Sedimentary turnover processes lead to enhanced production of carbon-containing greenhouse gases (CO_2, CH_4), which can be released to the atmosphere due to strong hydrodynamic interactions and rapid benthic-pelagic coupling. Moreover, the dynamic nearshore processes result in the variability and dynamics of greenhouse gas release and underlying processes not being detectable by conventional sampling strategies. Therefore, modern high temporal resolution sensor technology recently established at the IOW will be intensively used. The investigations will be carried out with a high degree of interdisciplinarity in cooperation with the other work packages of the new research focus.

The position includes the following tasks:

- Further development and adaptation of marine research technology to address the research question, in particular the optical detection of CH_4 and CO_2 as well as accompanying parameters;
- Development of sampling strategies and planning of / participation in measurement campaigns;
- Identification of relevant processes and control variables related to greenhouse gas release;
- Data evaluation using appropriate statistical methods;
- Interpretation and publication of results including related data from new research focus (modeling, physical boundary conditions, ...).

What do we expect from you?

- Master degree in chemistry, environmental science, chemical oceanography, or equivalent;
- PhD degree in one of these fields;
- Fundamental understanding of instrumental analytics.
- Ideally, experience in sensor-based measurement of gases and other environmental parameters;
- In-depth knowledge of data analysis and statistics;
- Interest in the development of new analytical methods;
- Independence in project work ;
- Good command of written and spoken English;
- Ability and willingness to work in the field.

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 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 (Women's Promotion Plan of 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 as the position belongs to a department 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 specify 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, a text written by yourself in English language (e.g. Master Thesis, PhD Thesis), additional certificates as well as references names or letters of recommendation.

We look forward to receiving your application, quoting the
keyword: STB 07/23
by 31.03.2023
to:
bewerbung@io-warnemuende.de / bewerbung.chemie@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 in calendar week 17.

Unfortunately, we cannot cover your application and travel costs.

For further information, please contact:
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