**Job announcement** (Phy-08/2021)

The Department Physical Oceanography and Instrumentation of the Leibniz Institute for Baltic Sea Research Warnemünde (IOW) is offering a full-time (40 hrs/week) Research Scientist (Postdoc) position starting on January 01, 2022. Remuneration is paid in accordance with the TV-L salary scale at level EG 13 monthly gross salary. The employment is temporary for 2 years. Part-time work is possible with at least 20 hours/week or by job sharing of 2 applicants.

The IOW is an independent institute of the Leibniz Association, engaged in system analysis of coastal and marginal seas, with special focus on the Baltic Sea. The scientists of the four departments (Physical Oceanography and Instrumentation, Marine Chemistry, Biological Oceanography and Marine Geology) cooperate within the framework of a joint research program.

**Job description**

Within the project Processes Impacting on Estuarine Turbidity Zones in tidal estuaries (PIETZ) funded by the German Research Foundation it is the aim to develop a fundamental understanding of sediment trapping processes in tidal estuaries. Based on theoretical and modelling approaches, these basic questions will be investigated: How do the fast dynamics of suspended particulate matter (SPM) in the water column and the slow dynamics of the sediment bottom pool interact to determine locations of estuarine turbidity maxima (ETM) and variability? What are the adjustment timescales of SPM dynamics and ETM formation in response to changing hydrodynamic conditions? What are the fractions of fluvial and marine SPM classes in ETMs? The work will be carried out within the working group “Estuarine and Coastal Ocean Processes (ECOP)” at IOW, which has a longstanding experience in the development of coastal ocean models and theories for estuarine hydrodynamics and sediment transport.

**Qualification**

Candidates for this position are expected to have profound experience in numerical modelling of coastal ocean processes with a focus on hydrodynamic processes impacting on estuarine sediment transport. A PhD degree in Physical Oceanography or a related STEM subject is mandatory, as well as a good capability
in communicating in English. Skills in programming in FORTRAN and applications of graphical and analysis tools are required. Experience in applying the General Estuarine Transport Model (GETM) are highly welcome.

Applicants are asked to send their complete applications (cover letter, CV, copies of certificates, references) as a single PDF file quoting the

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Until November 15, 2021 to:
bewerbung.physik@io-warnemuende.de
or
Leibniz Institute for Baltic Sea Research Warnemünde
Dept. Human Resources
Seestrasse 15
18119 Rostock
Germany

Applications of disabled persons with same professional and personal qualification will be treated preferentially. Please indicate a handicap in the cover letter and enclose the relevant certificate.
The job advertisement is aimed at all persons regardless of their gender. The IOW promotes equal opportunities and has been awarded the Total Equality Certificate in 2013 and 2016. An overview of our measures to equal opportunities and to improve the compatibility of work and family can be found at [http://www.io-warnemuende.de/gleichstellung.html](http://www.io-warnemuende.de/gleichstellung.html). Our family office, equipped with computer workstation and toys, offers parents the opportunity to take children to the IOW for shorter time periods.
Applications of female candidates are expressly encouraged and will be treated preferably in case of equal qualifications and suitability.
The Leibniz Institute for Baltic Sea Research offers a varied work in the immediate vicinity of the Baltic Sea. Interdisciplinary research topics on the Baltic Sea ecosystem, broad in-house expertise in physical, chemical and biological oceanography, and marine geology, state-of-the-art-laboratory equipment and infrastructure together with modern facilities provide an excellent framework for best research conditions.

Application and travel costs cannot be reimbursed.
For further Information please contact:
Prof. Dr. Hans Burchard ([hans.burchard@io-warnemuende.de](mailto:hans.burchard@io-warnemuende.de))
or visit our website: [www.io-warnemuende.de](http://www.io-warnemuende.de)