LEIBNIZ-INSTITUT FÜR OSTSEEFORSCHUNG WARNEMÜNDE

Job announcement (Bio 03/2019)

The Department Biological Oceanography of the Leibniz Institute for Baltic Sea Research Warnemünde (IOW) is offering a temporary part-time (20 hrs/week) position for 3 years as

Doctoral Researcher (PhD student) (*gn)

starting on the **1st of June 2019**. Funding is subject to the final approval by the third party funding agency. Remuneration is paid in accordance with the TV-L salary scale at level EG 13.

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, Marine Chemistry, Biological Oceanography and Marine Geology) cooperate within the framework of a joint research program.

Job description

The position focuses on experimental work in the project „The role of inorganic phosphate supply on the development of cyanobacterial summer blooms in the Baltic Sea (CyanoBloom, P-IV-3)“. This project is part of the graduate concept of the Leibniz ScienceCampus Phosphorus Research Rostock and includes, e.g., the connection to the Graduate Academy of the University of Rostock. The aim is an excellent education of young scientists in a transdisciplinary network. The focus is on new and innovative research topics related to phosphorus. More information about the graduate school inside the P-Campus are available under the following link: https://wissenschaftscampus-rostock.de/

The project CyanoBloom is focusing on the molecular analysis of the acclimation of toxic bloom-forming cyanobacteria toward fluctuating phosphorous conditions in the environment as well as under controlled laboratory conditions. The work in the laboratory will be performed with the model cyanobacterial strain *Nodularia spumigena* CCY9414 under supervision of Prof. Dr. Martin Hagemann, Department Plant Physiology, University Rostock. For this purpose, *Nodularia* will be cultivated in the presence of different P-sources and the expression of P-uptake and P-

metabolizing genes will be analyzed. In addition, the work on acclimation of free-living cyanobacterial populations will be supervised by PD Dr. Matthias Labrenz. This part will apply effective sampling, processing, analysis and identification methods for bacterial physiology and transcriptomics to characterize the spatial and seasonal development of cyanobacterial blooms in the Baltic Sea. The applicant will carry out the project-related experimental work and the data analyses. It is expected that the candidate will use the obtained data to submit a PhD thesis after three years and to publish them in scientific journals and to present the project results on scientific conferences. The interdisciplinary project character requires flexibility and willingness to work as part of a team.

Qualification

The successful candidate is required to have a diploma or master's degree (at least grade "good") in life sciences or related fields of environmental sciences, aquatic sciences and technologies or a comparable discipline. Experience in working with basic molecular biological methods is required. Knowledge of scientific writing/presentation and experience in the field of transcriptome analyses in the field or laboratory and their evaluation are required.
In addition, knowledge of working with microorganisms as well as fluent English spoken and written, and teamwork are desirable.

Applicants are asked to send their complete applications (CV, copies of certificates, references) quoting the

code: **Bio 03/2019**
until **30. April 2019** to:

bewerbung.biologie@io-warnemuende.de

or

Leibniz Institute for Baltic Sea Research Warnemünde
Dept. Human Resources
Seestraße 15
D-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 vacancy is open to all persons, irrespective of sex (*gender-neutral). The IOW promotes equal opportunities and has been awarded the Total Equality Certificate in 2013 and 2016. 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:
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or visit our website: www.io-warnemuende.de