

Job announcement (Bio 05-2021)

The Department of Biological Oceanography of the Leibniz Institute for Baltic Sea Research Warnemünde (IOW) is seeking a

Postdoctoral Research Scientist

in full-time (40 hours/week), working in the DFG funded project „BacDMS“.

Start of employment is scheduled for **01 February 2022**. Remuneration is paid depending on the individual qualification and in accordance with the TV-L salary scale at level EG 13.

The position is limited to a term of 12 months and may also be covered in part-time with at least 20 working hours per week.

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

The advertised position is part of the DFG-funded project “Bacterial transformations of dimethylsulfoniopropionate in the Weddell Sea (BacDMS)”. The bacterial degradation of dimethylsulfoniopropionate (DMSP) in the surface ocean results in the production of the climate-relevant trace gas dimethyl sulfide (DMS). While global-scale implications of marine DMSP cycling had been recognized for more than 30 years, only recently developed methods in molecular biology and “omics” approaches identified genes involved in the bacterial DMSP metabolism and provided insight into their phylogenetic distribution. We aim to (1) analyse the environmental regulation of bacterial DMSP degradation, (2) investigate the diversity and taxonomy of DMSP degrading bacteria,

(3) analyse the gene inventory for DMSP transformations and (4) characterize metabolic and ecological strategies of keystone species in the Weddell Sea. Samples are already available at the IOW. A second project phase will take place at the University of Greifswald.

The major task of the advertised position is the quantification of gene copies and transcripts of relevant enzymes in bacterial DMSP degradation by the use of droplet-digital polymerase chain reaction (ddPCR), a further development of the quantitative polymerase chain reaction (qPCR). Furthermore, nucleotide sequences of marker genes should be investigated to explore the diversity of DMSP-degrading bacteria in the Weddell Sea.

Required qualification

- PhD in biology, environmental science or a comparable discipline
- Good knowledge of methods in molecular biology including ddPCR or qPCR

Beneficial additional qualifications

- Experience in bioinformatics analysis of high-throughput sequencing data
- Good English language skills
- Peer-reviewed publications
- Knowledge of marine element cycles in polar systems

Applicants are kindly asked to send their complete and detailed applications (Cover letter, CV, copies of certificates, descriptions of expertise and professional activities, list of publications, references) quoting the code **Bio 05-2021** until **30 November 2021** to:

bewerbung.biologie@io-warnemuende.de (as a merged pdf)

or

Leibniz Institute for Baltic Sea Research Warnemuende
Dept. Human Resources
Seestrasse 15
18119 Rostock
Germany

Virtual interviews are planned for the first week of January 2022.

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 was awarded the Total Equality Award (TEQ) several times since 2013. 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>.

Applications of female candidates are explicitly encouraged.

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 costs cannot be reimbursed unfortunately.

For further information please contact:

Dr. Judith Piontek, email: judith.piontek@io-warnemuende.de

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

Data privacy notice:

The data will only be passed on to the members of the staffing commission who are involved in the specific selection process. Furthermore, an external, pre-determined person is also part of the commission to represent our cooperation partner (University of Greifswald).

For further information on data protection in the context of application procedures, please visit www.io-warnemuende.de/stellenstipendienpreise.html.