

Job announcement (Che 04/2021)

The Department Marine Chemistry at the Leibniz Institute for Baltic Sea Research Warnemünde (IOW) is offering the full-time (40 hrs/week) position of a

Research Scientist (PostDoc) (*gn)

starting at the earliest possible date and limited until July 31th 2024. Remuneration is paid depending on the individual qualification and in accordance with the TV-L EG 13. The position is also suitable for part-time employment with at least 30 working hours per week.

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

Job description

The employment is within the framework of the BMBF-funded project ASMASYS (Unified ASsessment framework for proposed methods of MARine CDR and interim knowledge SYnthesiS):

<https://www.io-warnemuende.de/project/276/asmasy.html>

The project is part of the activities of the research mission " Marine Carbon Sinks in Decarbonization Pathways" of the German Alliance for Marine Research (DAM):

<https://www.allianz-meeresforschung.de/en/marine-carbon-sinks/>

Additional information about the research mission:

<https://www.cdrmare.de/en/>

The mission addresses the question whether and by which measures in the marine environment (CDR - Carbon Dioxide Removal) the atmospheric CO₂ levels

can be reduced. Within ASMASYS, an assessment framework is developed in a transdisciplinary environment, applied to different options of marine CO₂ removal, and hereon, an (intermediate) synthesis is developed.

The position advertised here is primarily concerned with biogeochemical mechanisms, processes and possible side effects of marine CDR options. The work will be carried out in close cooperation with the project partners, who have a broad range of expertise.

The tasks include in detail:

- Assessment of the natural science basis of marine CDR options in terms of, e.g., mechanism, scalability, potential co-benefits, and side effects
- Development of the natural science evaluation criteria for marine CDR options
- Participation in regular transdisciplinary *Think Tank* meetings
- Natural science assessment of marine CDR options pursued within the Research Mission and internationally
- Design and implementation oversight of a literature and knowledge database
- Playing an instrumental role in producing an interim cross-disciplinary synthesis
- Preparation of scientific publications and reports on marine CDR-options
- Close cooperation with the project coordination of ASMASYS (located at IOW)

Necessary qualification of the candidate

- PhD, preferably in environmental, climate or marine sciences or another field in case of relevant expertise in marine CDR options
- Experience with marine CDR options and/or broad biogeochemical knowledge of the marine CO₂ system and pH-sensitive processes

- Demonstrated aptitude for scientific writing
- Good to very good knowledge of the English language
- Strong communication and teamwork skills
- Willingness to and enjoyment of transdisciplinary research

Preferable additional qualifications

- Knowledge of carbon budgets in the context of climate scenarios
- Knowledge of the German and international research landscape with regard to decarbonization strategies
- Enthusiasm and interest in climate-related research and environmental decision-making processes

Applicants are requested to send their complete application documents (cover letter, letter of motivation, curriculum vitae, copies of certificates, description of relevant activities and experience, list of publications and contact details of at least two references) **as a single PDF file**, quoting the keyword **Che 04/2021**, by **02.12.2021** by email to:

bewerbung.chemie@io-warnemuende.de or by regular mail to:

Leibniz-Institute for Baltic Sea Research (IOW)
Dept. Human Resources
Seestrasse 15
D-18119 Rostock
Germany

Job interviews are expected to take place in calendar week 50 (13.-17.12.2021).

Applications of disabled persons with the 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 (*gn). Applications of female candidates are particularly encouraged and will be treated preferentially in case of equal qualifications and suitability.

The IOW promotes equal opportunities and has been awarded the Total Equality Award (TEQ) regularly since 2013. An overview of our measures to equal opportunities and to improve the compatibility of work and family can be found at <https://www.io-warnemuende.de/equal-opportunity.html>.

The Leibniz Institute for Baltic Sea Research offers a varied workplace 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, as well as state-of-the-art- laboratories and a very good infrastructure provide the framework for the best research conditions.

Unfortunately, application and travel costs cannot be reimbursed.

For further information, please contact Prof. Dr. Gregor Rehder (Gregor.rehder@io-warnemuende.de) or Dr. Wanda Holzüter (wanda.holzhuetter@io-warnemuende.de) and visit our website: www.io-warnemuende.de

