

## **Job announcement for a tenure track scientific programmer in climate modeling (Phy 13/2020)**

The Department Physical Oceanography and Instrumentation of the Leibniz Institute for Baltic Sea Research Warnemünde (IOW) is seeking a highly motivated

### **Scientific Programmer**

working on the analysis and modeling of the climate in the Baltic Sea region. The position announced here shall be filled as soon as possible. Remuneration is paid in accordance with the TV-L salary scale at level EG 13 monthly gross salary (40 hours/week). If legally feasible, the position will first be filled as a 3 years fixed term contract. After a successful evaluation following the IOW tenure track procedure, the position might become permanent. 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 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**

In close collaboration with other scientists and scientific programmers at the department, a regional climate system model for the Baltic Sea region will be developed and applied for long-term simulations. The objective is to examine how the physical and biogeochemical processes have changed in coastal and marginal seas like the Baltic Sea in the course of decades to millennia. The information about past long-term changes from long-term observations and model simulations will be used to develop plausible scenario simulations for the future of the marine ecosystem in the Baltic Sea and other coastal and marginal seas. Especially the question how coastal and marginal seas may react on anthropogenic climate change and other human influences such as eutrophication shall be addressed.

The jobholder shall work in particular with the programming of the regional climate model and evaluation tools and with the preparation of forcing data. These tasks will include the visualization and manipulation of model data of the



regional climate system. Since analysis programs and the code of the climate system model are available for all working group members, good knowledge in scientific programming and experience in detailed documentation are particularly important. In addition, the jobholder will optimize model performance on the supercomputer.

### Qualification

Applicants must have a university degree (master/diploma) with very good final degree in mathematics, computer science, meteorology, oceanography or a related natural or geoscientific discipline with pronounced physical-mathematical components. A PhD would be desirable.

In addition, experience in the use and / or development of numerical models of the atmosphere and / or ocean, knowledge of physical processes in the ocean, the atmosphere and the sea ice, and experience in the evaluation of climate and system model data and geophysical long-term observations are desirable.

Expected are advanced and proven experience in scientific programming, and in the use of supercomputers, Linux / Unix, Fortran, and graphical analysis programs such as Matlab, R, Python, IDL. Good to very good English language skills are essential for the collaboration with international partners.

The ability to work in a team as well as good to very good knowledge of the English language is essential for the cooperation with international partners.

Applicants are kindly asked to send their complete and detailed applications (Cover letter, CV, copies of certificates, descriptions of expertise, professional activities, list of publications, and at least three references) quoting the code **Phy 13/2020** until **31 January 2021** to

[bewerbung.physik@io-warnemuende.de](mailto:bewerbung.physik@io-warnemuende.de)

or

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

If legally feasible, the temporary employment will allow for scientific qualification (§ 2 Abs. 1 WissZeitVG).

The interviews are expected to be on **26.02.2021** online.

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) in 2013, 2016 and 2019. 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>. 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 particularly encouraged and will be treated preferentially in case of equal qualifications and suitability, as the post to be filled belongs to a structural unit in which women are underrepresented.

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 unfortunately.

For further information please contact:

Prof. Dr. Markus Meier, email: [markus.meier@io-warnemuende.de](mailto:markus.meier@io-warnemuende.de)

or visit our website: [www.io-warnemuende.de](http://www.io-warnemuende.de).

