

## **Job announcement for a tenure track scientist position in regional climate modeling (Phy 01/2020)**

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

### **Postdoctoral Research Scientist**

working on the analysis and modeling of the climate in the Baltic Sea region. The position announced here will be filled as soon as possible. Remuneration is paid depending on the individual qualification and 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 limited to an initial term of 3+2 years and may be prolonged after successful evaluation for an unlimited time period thereafter as regulated in the tenure track procedure. The position may also be covered in part-time 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.

Since the influence of the atmosphere is of great importance for the changes in shallow coastal and marginal seas such as the Baltic Sea, the job holder shall



develop and evaluate a coupled climate system model and conduct research in particular on the volume, energy, momentum and material fluxes between atmosphere, sea ice and ocean, on the influence of the large-scale circulation of the atmosphere and on climate changes in the Baltic Sea region. In addition, studies on changes in extreme value events, ensemble studies on the uncertainty assessment of projections with coupled models and climate impact research for the Baltic Sea and other coastal and marginal seas shall be carried out.

### Qualification

Applicants must have university degree (master/diploma) and a PhD (at least magna or summa cum laude) in meteorology, oceanography or a related natural or geoscientific discipline with pronounced physical-mathematical components. Independent scientific work, an appropriate number of publications, experience in the application and development of numerical global or regional climate models, good knowledge about the global climate system and physical processes in the atmosphere and/or in the ocean, the variability of regional climate systems, and regional and global climate projections are required.

Experience in the application of super computers, Linux / Unix, and Fortran and in the visualization and scientific evaluation of large amounts of data (e.g. with software such as Matlab, IDL, Phyton, R) are required.

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 and possible scientific perspectives, list of publications, and at least three references) quoting the code **Phy 01/2020** until **15 March 2020** to

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

or

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



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

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. 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.

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.

Application and travel costs cannot be reimbursed unfortunately.

The interviews are expected to be on **21.04.2020** in Warnemünde.

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).