

## **Job announcement for a tenure track scientific programmer position in climate modelling**

(Phy-08/2016)

The Department Physical Oceanography and Instrumentation of the Leibniz Institute for Baltic Sea Research Warnemünde (IOW) is seeking a highly motivated scientific programmer in climate modelling. The position announced here will be filled as soon as possible. Remuneration is paid in accordance with the TV-L salary scale at level EG 13 monthly gross salary. For the first three years the employment is temporary. After successful evaluation there is the option of permanent employment. Part-time employment is possible.

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**

In close collaboration with scientists 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 master with very good final degree in mathematics, computer science, meteorology, oceanography or a related natural or geoscientific discipline with pronounced physical-mathematical components. 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.

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.

Applicants are kindly asked to send their complete and detailed applications (Cover letter, CV, copies of certificates, descriptions of expertise and professional activities, and at least three references) quoting the code **Phy-08/2016** until **05 June 2016** to

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

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 IOW promotes equal opportunities and has been awarded the Total Equality Certificate (TEQ) in 2013. Applications of female candidates are expressly encouraged and will be treated preferably in case of equal qualifications and suitability. Our family office, equipped with computer workstation and toys, offers parents the opportunity to take children to the IOW for shorter time periods.

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: Dr. Thomas Neumann,                email: [thomas.neumann@io-warnemuende.de](mailto:thomas.neumann@io-warnemuende.de)

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

