Job announcement for a postdoc scientist position in regional climate analysis (Phy 04/2019)

The Department Physical Oceanography and Instrumentation of the Leibniz Institute for Baltic Sea Research Warnemünde (IOW) is seeking a highly motivated Postdoctoral Research Scientist to work on the analysis 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). The position is limited to a term of one year (with the possibility of a prolongation with another year depending on funding) and 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, Marine Chemistry, Biological Oceanography and Marine Geology) cooperate within the framework of a joint research program.

Job description

General:

The position holder will work in close collaboration with other scientists, postdocs and doctoral students in the working group ``Dynamics of Regional Climate Systems`` and in collaboration with scientists within and outside the IOW on the analysis of model results from existing climate scenario simulations for the Baltic Sea region. Further, the model results will be compared with observed historical changes since 1850. In particular, it will be investigated how the physical and biogeochemical conditions in coastal and marginal seas such as the Baltic Sea and relevant processes have changed during the past 150 years and which plausible future trajectories are possible based on model results (Research Area 3 of the IOW research program). The research is part of the Baltic Earth program (http://baltic.earth).
In detail:

The job holder will analyze an ensemble of climate simulations conducted with coupled physical-biogeochemical Baltic Sea models. The existing and published climate simulations were driven by various global climate models and greenhouse gas emission scenarios using the dynamical downscaling approach. The projected changes including their uncertainties will be compared with the observed changes in Baltic variables (e.g., air temperature, precipitation, large-scale atmospheric circulation, water temperature, salinity, sea ice cover, water level, and oxygen, nutrient, and phytoplankton concentrations), inter alia from the IOW long-term monitoring program. The aim is to draw conclusions about the plausibility of the model simulations. The results of these studies will be published in scientific publications and will be included in the third report on the Assessment of Climate Change in the Baltic Sea Region (BACC III, see https://www.baltic-earth/bear/).

**Qualification**

A doctoral degree (magna or summa cum laude) in the subject of meteorology, oceanography or a related natural or geoscientific discipline with pronounced physical-mathematical components is required. Independent scientific work and a reasonable number of publications, documented experience in the analysis of climate model data, good knowledge of the global climate system and physical processes in the ocean, the atmosphere and sea ice, the variability of the climate in the Baltic Sea region, and regional and global climate projections are expected. In addition, knowledge of biogeochemical cycles on a global and regional scale is desirable.

Experience in the application of Linux/Unix, Fortran, shell script programming, etc. and in the visualization and scientific evaluation of large amounts of data (for example with programs 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 04/2019** until **1 September 2019** to

`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 be allowed 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. 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](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.
The interviews are planned for the period between 17 und 19 September 2019 in Warnemünde.

For further information please contact:

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