

## **Job announcement (Phy-02/2017\_INTEGRAL)**

The Department of Physical Oceanography and Instrumentation of the Leibniz Institute for Baltic Sea Research Warnemünde (IOW) is offering (subject to funding of the project) a full-time

### **Postdoc (Ecosystem Modeling)**

position starting on the August 1<sup>st</sup> 2017 . Remuneration is paid in accordance with the TV-L salary scale at level EG 13 monthly gross salary. The employment is temporary for 30 months.

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**

Within the collaborative project INTEGRAL (Integrated carboN and TracE Gas monitoRing for the bALtic sea), the carbonate system of the Baltic Sea should be investigated and quantified. Field experiments, analytical work, and modeling will be a joined effort.

The announced position is on modeling the Baltic Sea ecosystem with focus on the carbonate system. An existing ecosystem model of the Baltic Sea should be evaluated with regard to the carbonate system, and some process formulations in the model should be refined. The collaboration in an interdisciplinary team provides the great opportunity of a sound knowledge within the project consortium.

The refined model will be used for long-term simulations (>100 years) with the aim to detect trends, and estimate budgets and fluxes. With the aid of the simulation data, an optimal strategy for observing the Baltic Sea carbonate system will be developed.

#### **Qualification**

Applicants are required to have a PhD in oceanography, marine biology, physics, or a related natural or geoscientific discipline with pronounced biogeochemical and

physical-mathematical components. Good knowledge in modeling geo-physical systems, data processing and analysis of environmental data are expected. Furthermore, experiences in the use of supercomputers, Linux / Unix, Fortran, and graphical analysis programs such as Matlab, R, Python, IDL are required. In addition, extended experience in development of numerical models for the ocean and biogeochemical processes, and in the statistical analysis of geophysical observations and model data are desirable.

Applicants are asked to send their complete applications (CV, copies of certificates, list of publications, references) quoting the

Code: **phy-02/2017\_INTEGRAL**

Until **May 14<sup>th</sup> 2017** 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

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.

Part-time work is possible with at least 30-35 hours/week or by job sharing of 2 applicants. The IOW promotes equal opportunities and has been awarded the Total Equality Certificate in 2013 and 2016. 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.

For further information please contact:

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