



Universität Hamburg

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Helmholtz-Zentrum  
Geesthacht

Zentrum für Material- und Küstenforschung

Universität Hamburg and Helmholtz-Zentrum Geesthacht are dedicated to sustainability. Equal opportunity and family-friendly policies are a matter of course. We also treasure cultural diversity, communication and interaction among people from different backgrounds and with different lifestyles.

In a joint appointment process with the Universität Hamburg (School of Mathematics, Informatics and Natural Sciences), the Helmholtz-Zentrum Geesthacht (HZG) is seeking to fill the position of a

## W<sub>3</sub> PROFESSORSHIP FOR SYSTEM ANALYSIS AND MODELLING AND DIRECTOR OF THE INSTITUTE OF COASTAL RESEARCH

commencing as soon as possible, ref. code 2195/W3. The place of employment is Geesthacht.

Applicants are expected to have international research experience as well as a successful track record in acquiring external funding and carrying out externally-funded projects. The University and HZG place particular emphasis on the quality of teaching and therefore request applicants to provide details of both their teaching experience and objectives.

Universität Hamburg and HZG seek to increase the proportion of women in teaching and research. We therefore explicitly encourage qualified female academics to apply. Qualified female applicants receive preference in the application process.

### Tasks:

With a total of 180 employees, the Institute of Coastal Research of the HZG carries out research on the geophysical and biogeochemical processes of coastal ocean and the influence of anthropogenic changes.

We are looking for an excellent researcher and leader in coastal sciences to head the Institute of Coastal Research jointly with two colleagues. He/She will be responsible for the division "System Analysis and Modelling".

The scientific focus of this division is on modelling and analysis of long-term regional variability, trends and scenarios. The top priority is the application of models to analyse and understand the complex geophysical processes in the coastal regions with a special emphasis on long-term changes associated with regional climate and anthropogenic influences. Collaboration with social science groups is encouraged. The new director of the Institute will continue this successful and unique avenue of research of the entire Institute of Coastal Research at the Helmholtz-Zentrum Geesthacht to further develop HZG's profile into a centre of excellence for integrated numerical modelling of coastal regions. The additional research topics of the other two departments of the institute, namely "Operational Systems" and "Biogeochemistry of Coastal Seas", should therefore be included in modelling and simulation.

The Institute for Coastal Research at HZG and the Center of Earth System Sciences and Sustainability (CEN) at Universität Hamburg strive to further intensify their cooperation. Therefore a close cooperation with CEN is expected.

The successful candidate will be an internationally recognized scientist, who

- is an expert in the discipline of geophysics and has an excellent process-based understanding of the complex interdisciplinary connections in the coastal regions
- can apply and develop numerical models (e.g. earth system models) and explore scenarios for the development of coastal regions
- is able to collaborate with related natural and socio-economic sciences
- has extensive experience in research, teaching and in a leading management position
- has an excellent publication record

The position includes lectures for two hours per week at the Universität Hamburg.

### Requirements:

Academic qualifications and additional requirements as specified in § 15 of the Hamburg Higher Education Act. Several years of research activity abroad as well as a trans-disciplinary and socio-economic research interest are desired.

It is expected that the applicant will maintain, or further develop, the already existing climate and coastal research cooperations with various institutions in Northern Germany and abroad.

HZG is partner of the German Climate Computing Centre (DKRZ). The candidate is encouraged to use this scientific resource for his own scientific projects.

Qualified disabled candidates receive preference in the application process.

For detailed information, please contact the Scientific Director of the Helmholtz-Zentrum Geesthacht, Prof. Wolfgang Kaysser (kaysser@hzg.de).

The deadline for applications is **19 June 2014**. Please submit your application, including the standard documents and ref. code 2195/W3 to: An den Präsidenten der Universität Hamburg, Organisationsreferat, Ausschreibungsstelle, Mittelweg 177, 20148 Hamburg or via email to [UniHHAusschreibungsstelle@verw.uni-hamburg.de](mailto:UniHHAusschreibungsstelle@verw.uni-hamburg.de).

