

FOR PEOPLE AND THEIR FUTURE ENVIRONMENT



Postdoc Position (m/f/d)

for the project A5: The Land-ocean transition zone, in the framework of the DFG Cluster of Excellence "CliCCS-Climate, Climate Change and Society", funded by the associated Helmholtz Excellence network.

code no. 2019/KS 3

The place of employment is Geesthacht, Germany.

Helmholtz-Zentrum Geesthacht, Institute of Coastal Research invites applications for a 5-year **Postdoc position (m/f/d)** for the project A5: The Land-ocean transition zone, in the framework of the DFG Cluster of Excellence "CliCCS-Climate, Climate Change and Society", funded by the associated Helmholtz Excellence network.

The Institute of coastal research at the Helmholtz-Zentrum Geesthacht hosts a number of highly motivated and experienced researchers in the broad field of coastal research. Our research focus lies on coastal system research with specific expertise in regional coupled modelling on regional and coastal scales. At Helmholtz-Zentrum Geesthacht numerical models are developed with the aim to determine the past and current state of the environment and to understand the impact of major drivers for future changes in the system.

The Helmholtz-Zentrum Geesthacht is partner in CliCCS, an ambitious research program at the University of Hamburg, which is funded by the German Research Foundation (DFG) and part of Germany's Excellence Strategy. CliCCS aims to understand climate changes, taking into account internal variability, extreme events, and unexpected side effects, addressing the natural and social spheres as well as their interactions. CliCCS' overarching research question is: Which climate futures are possible and which are plausible? The programme will investigate how climate changes and how society changes with it, thereby feeding back on climate. It will identify those climate futures that are consistent with both climate and social dynamics (possible), and those we expect to unfold with appreciable probability (plausible).

Initially, a fixed term position for the duration of 60 months is offered, with commencement of employment 01. April 2019.

Responsibilities:

Duties include academic services in the project named above. The position is specifically suitable to pursue independent research in the frame of the CliCCS programme/project and provides the opportunity to pursue further academic qualifications.

Specific Duties:

The candidate will, in close cooperation with scientists from Helmholtz Zentrum Geesthacht and Max Planck Institute for Meteorology further develop the global ICON-coast model by extending the global ocean general circulation model ICON-O, focusing on the implementation of specific grid configurations and their relevance for resolving relevant physical and biogeochemical aspects. Specific focus of the research are the physical and biogeochemical dynamics of the global land-ocean transition zone (LOTZ) and the role of the LOTZ for carbon cycling in the Earth system. The candidate will work in an interdisciplinary project team together with scientists University of Hamburg and the Max Planck Institute for Meteorology and active collaboration is expected.

Requirements:

- PhD in climate science or related disciplines
- expertise in oceanography and biogeochemistry
- profound understanding and deep interest in marine physical and biogeochemical processes and carbon cycling
- experience in scientific programming with FORTRAN and related analysing programming languages (e. g. MATLAB, R, Python)
- the candidate must have either profound knowledge in English - native or TOEFL-score with a minimum of 25 in each of the four sections or equivalent (e. g. "DAAD-Sprachzeugnis") - or German (native or "Deutsches Sprachdiplom", Stufe 1) with good knowledge in English
- good communication skills and ability to work in an interdisciplinary team of various fields of geosciences

We offer:

- multinational work environment with over 950 colleagues from more than 50 nations
- extensive options of vocational training (i. a. expert seminars, language courses or leadership seminars)
- flexible working hours and various models to ensure the compatibility of family and career
- excellent infrastructure, including a scientific in-house library as well as modern work spaces
- remuneration according to the standards of the collective wage agreement TV-AVH including further social benefits
- cooperation within an interdisciplinary project team and within the Cluster of Excellence at the University of Hamburg

The promotion of equal rights is a matter of course for us. Severely disabled persons and these equals severely disabled persons who are equally suitable for the position will be considered preferentially within the framework of legal requirements.

 **Helmholtz-Zentrum Geesthacht**

Centre for Materials and Coastal Research

The Helmholtz-Zentrum Geesthacht (HZG),

The Helmholtz-Zentrum Geesthacht in Geesthacht, near Hamburg, and in Teltow, near Berlin, conducts materials and coastal research. For further information please refer to: www.hzg.de

The Helmholtz-Zentrum Geesthacht

is one of the 19 national institutions of the Hermann von Helmholtz Association of German Research Centres e.V. (HGF). Around 950 employees carry out basic research and development work in close cooperation with national and international research institutions, research-oriented clinics and economic and public institutions.

At the Institute of Coastal Research

about 150 scientists research processes on the coast and interactions between the land, the sea and humans. The objective of the three sub-institutes "Biogeochemistry in Coastal Seas", "Operational Systems" and "System Analysis and Modelling" is to create the scientific basis for sustainable development and future-oriented management of the coasts.



wissen schafft nutzen

Deadline: **26.02.2019**

Workplace: Geesthacht

Contact: Ms. Erika Krüger

personal@hzg.de

www.hzg.de

Please send your application indicating job offer **code-no.**

2019/KS 3 your CV, certificates of your university degrees, transcripts, a list of publications, description of research experience and goals, and a list of up to three references to personal@hzg.de.