

PhD Position (m/f)
in numerical ocean wave modelling and data analysis
code no. 2016/KS 6

The place of employment is Geesthacht.

The Helmholtz-Zentrum Geesthacht in Geesthacht, near Hamburg, and in Teltow, near Berlin, conducts materials and coastal research. You can find more information at <http://www.hzg.de>.

The Institute of Coastal Research at the Helmholtz-Zentrum Geesthacht invites applications for a **PhD Position (m/f) in numerical ocean wave modelling and data analysis**. The position is limited to 36 month.

Your tasks:

The candidate is expected to conduct research designed to understand changes in ocean wave climate and the occurrence of abnormal or rogue waves. Research should focus on both, analysis of occurrences of abnormally high waves as well physical mechanisms linking the occurrences with prevailing atmospheric and oceanic conditions together with their variability and long-term change. Regional focus will be in the North Sea while other areas may be considered in addition. The work will include numerical modelling and analysis of observational and model data. Specific tasks of the researcher will include adaptation of model source code, numerical model experiments and analysis and interpretation of model output and observational data in conjunction with theoretical concepts.

Profile of qualifications:

The successful applicant will have a University degree in Physics, Mathematics, Physical Oceanography, Atmospheric Science, Environmental Science, or related disciplines. A background in modeling and programming, in particular wave modelling is desirable. Profound knowledge of theoretical concepts in ocean wave physics and climate are a key advantage. Good skills in scientific programming (FORTRAN) as well as working with computers (Unix/Linux) are expected, as well as good knowledge of the English language (written and oral).

The successful candidate is expected to cooperate with external partners. Ability and willingness to work in an international and interdisciplinary team are therefore required.

We offer an appropriate salary related to TV-AVH as well as the usual public sector social benefits. The advancement of equality at the Helmholtz-Zentrum Geesthacht goes without saying; in particular, we are striving to increase the percentage of women in the science sector. Severely disabled persons with equal qualifications will be considered preferentially within the framework of legal requirements.

Please send your application indicating job offer **code no. 2016/KS 6** including a short letter of motivation, CV together with a list of publications and copies of relevant certificates preferably by e-mail in one file not larger than 10 MB to personal@hzg.de.

Closing date for applications is **November, 8th, 2016**.