

HafenCity University Hamburg - University of the Built Environment and Metropolitan Development (HCU) was founded by the Free and Hanseatic City of Hamburg in 2006. Its focus in research and teaching lies in questions and challenges of urban development and the built environment. In this regard, it bundles all aspects of design and form, engineering and natural sciences as well as social science and humanities. The work of HCU is transdisciplinary. One of the characteristics of HCU is the integrated approach to teaching and research. All departments cooperate in order to reach applicability, technical knowledge, multi-disciplinary reflection and creativity.

The Department for Geodesy and Geoinformatics of HCU is looking for a

Research Assistant (PhD student)

salary group 13 TV-L (100%)
within the new DFG research unit „GlobalCDA“

This temporary position has a duration of (initially) three years, starting as soon as possible.

Your tasks

The topic of the PhD project will be the use of GRACE satellite gravity data for improving our understanding of the global terrestrial water cycle. Together with eight other European research groups from remote sensing/geodesy and hydrological modeling, it will be part of the interdisciplinary DFG research unit GlobalCDA (Understanding the global freshwater system by combining geodetic and remote sensing information with modelling using a calibration/data assimilation approach).

The specific tasks of the PhD student at HCU will be (1) the generation of optimized GRACE data sets including specific uncertainty information to be used for hydrological model calibration and data assimilation and (2) the development of methods for the validation of model results against independent data sets (e.g. groundwater levels, soil moisture data).

The project will be co-supervised by Dr. Laurent Longuevergne (University of Rennes, France) and will offer the possibility for temporary research visits in France.

Expected competence and knowledge

- An above average university degree (M.Sc./Diploma) in geodesy, hydrology, mathematics or a related discipline
- Programming skills in at least one established programming language, experience in C/C++ are an advantage
- Interest in independent scientific research, data analysis, mathematical and statistical methods development, presentation and publication of research results
- Very good oral and written English skills

The HafenCity Universität Hamburg provides a family friendly environment and supports the compatibility of family and career.

To ensure equal opportunities, applications by gender minorities and persons with immigrant background are explicitly desired.

Qualified individuals with disabilities will be favored.

Presence in Hamburg is required for this position.

We would point out that the applicant's classification in the level of experience within the advertised TV-L pay group within the recruitment procedure is based on the individually available professional experience of the candidate by the HR department of the HCU. Legally binding statements can only be made by the HR department of HCU.

Interested? We are looking forward to receiving your application!

For questions and further information, do not hesitate to contact Prof. Dr.-Ing. Annette Eicker (email: annette.eicker@hcu-hamburg.de or phone: +49 (0) 40 42827-5216).

Please send your complete application (including CV, cover letter, copies of relevant certificates), **not later than February 15, 2018** (preferably by email as one single PDF file) to:

HafenCity University
Personalverwaltung
Az: 2018-02 WiMi GlobalCDA
Ueberseeallee 16
20457 Hamburg
Germany
E-Mail: bewerbung@vw.hcu-hamburg.de

Please name the reference **2018-02 WiMi GlobalCDA** in the subject line.

Please be aware that in case of an invitation to an interview, HCU will **not be able to cover any expenses for travel and lodging**. Due to the high number of applicants HCU is not be able to return application documents. Therefore, please do not submit originals of certificates, etc. If you add a post-paid envelope HCU will return your application documents.