The Technical University of Braunschweig (Technische Universität Braunschweig, Germany) has an opening at Leichtweiß-Institute for Hydraulic Engineering and Water Resources, Division of Hydromechanics, Coastal and Ocean Engineering:

Scientist (PostDoc, m/f/d) in coastal engineering

Earliest start 01.01.2020 or later (subject to fund allocation)
remuneration group up to EG TV-L E14, fulltime position for 5 years

The Technical University of Braunschweig, with its 20,000 students and approximately 3,700 employees, offers a teaching and research spectrum with outstanding facilities and a personal atmosphere at the same time.

Within the research consortium "Towards a *Good Coast of Lower Saxony – Real-World Laboratories for Coastal Protection Strengthened by Ecosystem Aspects at the Coast of Lower Saxony*", funded by the Lower Saxony Ministry of Science and Culture (MWK), coastal protection will be researched in a holistic framework, considering ecosystem services and the mutual co-benefits between protection and adjacent nature. In this context, salt marshes and dune ecosystems will be covered. It is the goal to develop innovative and integrated coastal protection concepts for the benefit of humans and nature. The advertised role includes close collaboration with Prof. Nils Goseberg, and Dr.-Ing. David Schürenkamp, as well as with the consortium partners in Hannover and Oldenburg, both in Germany.

To that end, the following tasks are defined in the sub-projects at the Leichtweiß-Institute:

- Coordinating the subproject, leading the sub-projects and heading work group within the division of Coastal and Ocean Engineering;
- Conceptual planning of investigations in the real-world laboratories at the coast of Lower Saxony, Germany;
- Coordination of research activities in the area of coastal engineering and communication with adjacent disciplines, such as geoecology, and beyond.

Your tasks

- Pursuing joint publishing activities, presentation of research results and science communication;
- Planning and supervision of investigations in the real-world laboratories,
- Planning and supervision of physical experiments (wave flume, wave basin);
- Performing numerical and experimental investigations;
- Connecting and collaborating with consortium partners, strategic planning of add-on activities and co-developing the research activities within the division.

Your profile

- **Education**: We are looking for an excellent candidate with a sound professional background and an above-average doctorate in environmental, coastal or civil engineering, candidates of adjacent natural sciences disciplines such as geoecology are motivated to apply should their expertise cover above outlined tasks/responsibilities.
- **Experience**: Advanced experience with field experiments and physical modelling as well as wave and data analysis methods are desirable. Experience in publishing in scientific journals is a prerequisite. Further skills in project coordination and lecture skills are also desirable.
- **Personality**: We expect an team player with very good organizational and communication skills as well as a willingness to lead a motivated working group.
- **Languages**: Very good knowledge of spoken and written English language is required, fluent spoken and written German is a significant plus due to the collaboration with German colleagues, other German universities as well as partners.

Our offer

- The salary is based on the German salary system for employees up to remuneration group TV-L E14 (full-time employment), based on the personal qualification.
- Responsible activities and the possibility of further scientific qualification.
- Participation in an international, dynamic, open-minded and young team.
- Excellent working atmosphere and Europe-wide unique experimental facilities (e.g. Large Wave Flume of the Coastal Research Centre).

The job is generally suitable for part-time work but should be 100 percent occupied. Severely disabled applicants with equal qualification and suitability are given preferential consideration. Proof shall be attached. Applications from people of all nationalities are welcome. In all areas and positions, TU Braunschweig aims to reduce an under-representation in the context of the gender-equity law (NGG). Therefore, applications from women are particularly welcome. Personal data is stored for the purposes of the application process. For more information call +49 531 391-3930 or online: https://www.tu-braunschweig.de/lwi/hyku.

Please send your electronic application to Prof. Dr.-Ing. habil. Nils Goseberg by **15 December 2019** with relevant documents (cover letter, CV) by e-mail (hyku@tu-braunschweig.de).

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Division of Hydromechanics, Coastal and Ocean Engineering
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