



## Technische Universität Braunschweig is seeking to appoint a Junior Research Group Leader (fulltime; d/f/m)

### Future Urban Coastlines

#### Individualized and Eco-Integrated Coastal Protection by using Digital Technologies

Technische Universität Braunschweig (TU Braunschweig) is seeking to appoint a personality with pronounced interdisciplinary competence to lead a Junior Research Group on “Future Urban Coastlines” with a successfully proven scientific background of coastal / environmental engineering or similar subjects. The applicant should provide a strong track record as excellent junior researcher with a strong international network. The successful candidate is expected to contribute actively through research to strengthening the activities and external visibility of the core research area *Future Cities* and TU Braunschweig.

The research group to be established will focus on the end-to-end design of novel coastal protection structures for urban coastlines bringing together knowledge of coastal engineers, ecologists, digital design and fabrication. The group will conduct research for and develop context-specific, individualized, and eco-integrated design, construction and fabrication for coastal protection structures, with features providing habitat and corridors for flora and fauna, improving biodiversity and related ecosystem services by simultaneously approaching novel ways of nature-based solutions for coastal protection. Applicants with a core competence in the field of either coastal engineering, environmental engineering, or civil engineering with a focus on coastal applications, digital design and fabrication, as well as a strong interest in environmental science, coastal ecology or similar subjects are invited to apply.

The junior group leader position is initially appointed for a 4-year period. The group leader will be provided with two PhD positions (2 × 4-year posts) to stipulate and initiate research. She/he will obtain the right to supervise and promote PhD candidates. Salary is depending on task assignment and fulfillment of personal requirements up to salary group TV-L E14 (salary agreement for public service employees). The new group will have access to top-tier research facilities to pursue the research on future urban coastlines. A large scale [Digital Building Fabrication Laboratory](#), the large wave flume of the [Coastal Research Center](#), wave flumes & basin, research-grade multi-sensor drones, a saltwater wave-current-flume and other facilities/equipment. The group will be embedded into the vibrant atmosphere of the Faculty of Architecture, Civil Engineering and Environmental Science with plenty of connections and opportunities for collaboration.

The recruitment requirements are defined in Section 25 of the Lower Saxony Higher Education Act (Niedersächsisches Hochschulgesetz). The applicant should also fulfil the following criteria:

- PhD obtained no longer than 6 years prior to application
- outstanding scientific qualification for the subject to be filled
- a M.Sc. degree, with very good results
- a minimum of 12 month international research experience
- ability to obtain and to lead cooperative research projects and acquire third-party funding
- participation in international networks and strong research communication skills
- willingness to actively participate in faculty affairs and committees
- ability to work in a team and social competence
- commitment to the strategic development of the research group

With over 18,500 students and 3,700 staff members, Technische Universität Braunschweig is the largest Institute of Technology in Northern Germany. It stands for a strategic and achievement-oriented way of thinking and acting, relevant research, exceptional teaching and the successful transfer of knowledge and technologies to industry and society. We consistently advocate family friendliness and equal opportunities. We focus our research on mobility, infections and therapeutics, metrology, and future city. Our core disciplines include a comprehensive engineering branch and a strong natural sciences branch, closely linked with business sciences, social sciences, educational and humanities sciences. Our campus is located at the heart of one of Europe's most active research regions. We cooperate closely and successfully with more than 20 research institutions right on our doorstep and maintain strong relationships with our partner universities all over the world.

At TU Braunschweig, we aim to increase the share of women in academic positions and therefore particularly welcome applications from women. Where candidates have equivalent qualifications, preference will be given to female candidates. Applications from international scientists are highly welcome. A part-time appointment may be possible on request. Where candidates have the same qualifications, preference will be given to disabled candidates.

For further information please call +49(0)531-391-3930 (Prof. Dr.-Ing. N. Goseberg), +49(0)531-391-3571 (Prof. Dr. H. Kloft) or +49(0)531-391-5628 (Prof. Dr. Boris Schröder-Esselbach) or send an e-mail to [n.goseberg@tu-braunschweig.de](mailto:n.goseberg@tu-braunschweig.de).

Please submit your written application including a CV with academic track record, motivation letter, research concept for the Junior Research Group along with two convincing PhD student projects that incorporate aspects of coastal protection, digital design and fabrication as well as ecology, to

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Leichtweiß-Institute for Hydraulic Engineering and Water Resources  
Division Hydromechanics, Coastal and Ocean Engineering  
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to be received by 2021/03/15 latest. Please combine your documents to a single PDF file when submitting. Personal data and documents relating to the application process will be stored electronically. Please note that application costs cannot be refunded. Please understand that hardcopy applications can only be returned against a self-addressed, sufficiently stamped envelope.