Postdoc position (TU BRAUNSCHWEIG)
Bewerbungsfrist: 01.11.2020

1 Postdoc position in Seagrass Ecology – Restoration and Modelling

We are seeking a motivated Postdoc to work within our interdisciplinary project team starting 1st January 2021. The position is limited to a duration of three years and the salary is based on the German Civil Service system for employees E13 TV-L (100%).
The work is part of the project "SEASTORE – Diversity enhancement through seagrass restoration" financed by the German Federal Ministry of Education and Research (BMBF). The overall objective of the project is to develop tools and models for the restoration of seagrass meadows and to rise the public awareness of seagrass meadows, their biodiversity and ecosystem services such as carbon sequestration and sediment stabilisation, which is important for coastal protection. SEASTORE will advance active marine habitat restoration and provide the scientific basis for a robust and scientifically sound reestablishment of seagrass in Southern Baltic waters. The resulting tools and models will support decision makers in planning seagrass restoration. The project links research groups from Leibniz University Hannover, GEOMAR Helmholtz Centre for Ocean Research Kiel, University of Greifswald, Kiel Institute for the World Economy, and TU Braunschweig. Our subproject focuses on modelling the interactions between habitat conditions, plant traits and their plasticity as well as the development of a decision support system.

Tasks (i) Analysis of field measurements of plant traits in natural seagrass meadows, potential restoration sites and at restored sites sampled by associated partners. (ii) Assessing plant trait effects on planthydrodynamic interactions in a TwinFlume experiment. (iii) Modelling interactions between habitat and plant traits and their plasticity. (iv) Development of a decision support system combining output from all SEASTORE work packages, and making it publicly available to decision-makers and stakeholders.
Requirements The successful candidate will have a strong expertise in ecological and ecohydrological modelling and interest in the development of a decision support system. A sound knowledge of programming (e.g., R, Shiny App) is required. He/She has high problem-solving skills; the willingness to European travel for measurement campaigns is a pre-requisite for the application. Applicants must hold a doctoral degree, have proven excellent publication skills and should be able to work independently. Organisational skills, high motivation and the willingness to work as part of a team within an inter- and transdisciplinary project are essential. Very good to excellent English skills (oral and written) are a prerequisite. Knowledge of the German language is no requirement, but is beneficial.
Working environment We offer a stimulating research environment within an interdisciplinary, collaborative context. The position (full time 100%, i.e. 40 hours per week; part-time position is also possible on request) starts as soon as possible. The salary is in accordance with the German public service E 13 TV-L. TU Braunschweig is an equal opportunity employer and encourages applications from minority groups and women. Preference will be given to disabled applicants with the same qualifications.
Application Please email complete application documents as a single pdf-file including a letter of motivation, CV, copies of relevant degrees, and contact details of two referees **until November 1st** to boris.schroeder@tu-bs.de. Review will start on Nov 2nd and will continue until the position is filled. For informal enquiries please contact Prof. Dr. Boris Schröder-Esselbach (boris.schroeder@tu-bs.de).

Contact Prof. Dr. Boris Schröder-Esselbach, Landscape Ecology and Environmental Systems Analysis Institute of Geoecology, Technische Universität Braunschweig Langer Kamp 19c, 38106 Braunschweig, Germany
Tel: +49 (0)531 391-5629, Email: boris.schroeder@tu-bs.de