As a University of Excellence, Universität Hamburg is one of the strongest research universities in Germany. As a flagship university in the greater Hamburg region, it nurtures innovative, cooperative contacts to partners within and outside academia. It also provides and promotes sustainable education, knowledge, and knowledge exchange locally, nationally, and internationally.

The Faculty of Mathematics, Informatics and Natural Sciences, Department of Geosciences invites applications for a

**RESEARCH ASSOCIATE FOR THE PROJECT**

**“PHD-PROJECT: RHIZOSPHERE PROCESSES AND CARBON FLUXES FROM MARSHES TO CHANNELS”**

- SALARY LEVEL 13 TV-L -

The position in accordance with Section 28 subsection 3 of the Hamburg higher education act (Hamburgisches Hochschulgesetz, HmbHG) commences on January 1, 2021.

This is a fixed-term contract in accordance with Section 2 of the academic fixed-term labor contract act (Wissenschaftszeitvertragsgesetz, WissZeitVG). The term is fixed for a period of three years. The position calls for 65 % of standard work hours per week.*

**RESPONSIBILITIES:**

Duties include academic services in the project named above. Research associates may also pursue independent research and further academic qualifications.

**SPECIFIC DUTIES:**

The PhD student will be a member of the DFG funded Research Training Group BiCEst (Biota-mediated effects on Carbon cycling in Estuaries) and the lab of Geochemistry. The PhD student will investigate the role of processes in the rhizosphere on the carbon fluxes into drainage channels by geochemical methods. Relevant processes to be studied include ecosystem respiration, redox-processes and allochthonous material input (e.g. carbonates from shells), as well as their control on dissolution and mobilization of matter. Besides sampling in estuarine marshes, experimental work in the laboratory will be carried out using geochemical tools like isotopes (e.g. carbon, sulfur, oxygen or nitrogen) and trace elements for deciphering pathways of carbon fluxes. The experimental work includes work with soil-column experiments under climate control.

* Full-time positions currently comprise 39 hours per week.
REQUIREMENTS:

A university degree in a relevant field, i.e., Geosciences, Environmental Sciences, or Biology. The successful candidate should have a good knowledge and experience in geochemistry or biogeochemistry. Further, experience with field work, laboratory experiments, isotope analytics, trace element chemistry, the carbonate system, the carbon cycle and application of scientific software (e.g., PHREEQC, Matlab, R, Python) are beneficial. Team spirit, skills in scientific writing and knowledge in statistics are required. Good oral and written English skills are necessary.

Qualified disabled candidates or applicants with equivalent status receive preference in the application process.

For further information, please contact jens.hartmann@uni-hamburg.de or consult our website at www.grk2530-bicest.uni-hamburg.de. The selection procedure includes two steps: In a first step, qualified candidates will be identified based on the written applications. In a second step, the candidates who successfully passed step 1 will be invited to a three days selection workshop (presumably digital). This workshop is scheduled for September 14-16, 2020.

Applications should include a motivation letter, a tabular curriculum vitae, copies and transcripts of degree certificate(s) and a summary of the MA thesis. Please send the applications as one pdf-document by August 1, 2020 to: grk-bicest.biologie@uni-hamburg.de.

Please do not submit original documents as we are not able to return them. Any documents submitted will be destroyed after the application process has concluded.