Leibniz-Institute of Freshwater Ecology and Inland Fisheries

The Leibniz-Institute of Freshwater Ecology and Inland Fisheries (IGB) is the largest freshwater ecology research institute in Germany. It is a member of the Forschungsverbund Berlin e.V. and the Leibniz-Association (www.leibniz-gemeinschaft.de/en.html). The FVB manages 8 large research institutes in Berlin that have close links to all three universities in the German capital. IGB offers excellent laboratory and field facilities for interdisciplinary research, large-scale experimental facilities, and long-term research programs and data sets.

In the frame of the graduate school of the German Science Foundation (DFG) entitled: "Rolle von Biota im Kohlenstoffkreislauf von Ästuaren (Graduiertenkolleg 2530)" we offer in close collaboration with the University of Hamburg (see also: www.grk-bicest.uni-hamburg.de)

1 PhD Student (m/f/d)

in Aquatic Microbial Ecology

(Ref. 06/2020)

The PhD student will be a member of the DFG funded Research Training Group BiCEst (Biota-mediated effects on Carbon cycling in Estuaries) and investigate effects of microbial community composition, key metabolic pathways and metabolic interactions of aggregate-associated microbes on organic matter degradation along estuarine gradients. Field samples along the salinity gradient of the Elbe Estuary will be taken to analyze effects of changes in microbial community composition, key metabolic pathways and metabolic interactions of aggregate-associated microbes on organic matter degradation. Further, effects of different organic matter sources and microbial communities on organic matter aggregation and microbial degradation will be studied using an array of molecular and biogeochemical methods including whole 16S RNA gene sequencing and stable isotope tracers. Focus will be set on interactions between microbes and their relevance for C sequestration, organic matter transformation (including GHG emissions) and food web structure.

Requirements

A university degree in one of the following fields: Biology, Molecular Life Sciences, Biochemistry, Microbiology or related. Successful candidate should have knowledge and experience in general microbiology, physiology and genetics of bacteria, work with microbial consortia or biofilms. Experience with microbial community analyses including Illumina amplicon sequencing, functional metagenomics and transcriptomics are useful. Knowledge in biochemistry, especially in greenhouse gas measurements is helpful.
Solid knowledge in scientific writing, team spirit, and at least basic knowledge on bioinformatics and biochemistry are required. Good oral and written English skills are necessary.

For further information, contact Hans-Peter Grossart (hgrossart@igb-berlin.de).

We are seeking to recruit outstanding scientists to establish an innovative research program with high international visibility. The position is available for three years. Salary is according to the German Public Service (TVöD) (PhD student: 65% position). The position will be based at the department "Experimental Limnology" in Neuglobsow, Germany, but requires visits in the partner lab of Prof. Dr. Wolfgang Streit and graduate school events at the University of Hamburg. In keeping with the institute's policy regarding gender equity, female applicants are particularly encouraged. Disabled people with identical qualifications will be favored.

Please upload complete application documents as a single pdf-file including CV, a letter of motivation, copies of relevant degrees and contact details of two referees as soon as possible but no later than **31st July 2020** via the IGB's (http://www.igb-berlin.de/en/jobs) online job-application facility (button "Apply online").

We are looking forward to your application!