



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 (www.igb-berlin.de). It is a member of the Forschungsverbund Berlin e.V. and the Leibniz-Association (www.wgl.de). 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.

Within the joint cluster ANTIREAS (*Unravelling the transmission of antibiotic resistances in waste water by integrated multi-omics approaches*), funded by the German Ministry of Education and Research (BMBF) focusing on antibiotics in aquatic systems and its impact on carbon and microbial dynamics, the Leibniz Institute of Freshwater Ecology and Inland Fisheries, Berlin, invites applications for a

Post-doctoral Researcher position on antibiotics in aquatic systems

Background: A rapidly increasing threat is arising from antibiotic resistant pathogens and their growing global circulation that affects all areas of human life. This threat is further afflicted with a drastic lack of (new) effective drugs as well as insufficient preventive and diagnostic possibilities. ANTIREAS is a cooperative cluster between academic partners in Greifswald, Göttingen and Berlin and experts at Analytik Jena AG, Jena. Within this project we will examine the distribution of antibiotics and antibiotic resistances in municipal wastewaters and inland waters. In close cooperation with experts from Analytik Jena a new chip based tool for the analysis of antibiotic resistances will be developed. ANTIREAS is part of the BMBF consortium 'InfectControl 2020' of representatives from enterprises and academia that jointly aims at developing solutions regarding these problems on a national and global level (www.infectcontrol2020.de).

The **postdoctoral researcher** will focus on the impact of antibiotics on the biogeochemical cycle of carbon and microbial communities in waste waters and small inland waters. Assessing antibiotics and their metabolites will be combined with metagenomics- and metaproteomics analysis in cooperation with project partners at Universities Greifswald and Göttingen. Opportunity of position extension to investigations in Indian inland waters might be possible by positive funding of external grant source.

We are seeking a highly qualified scientist who is motivated to work in a young and interdisciplinary team, with great flexibility and autonomy.

The successful candidate holds a PhD in the natural sciences and has a strong background in biochemistry and/or chemistry of antibiotics and/or ecological microbiology. Profound experience in LC MS/MS techniques and sample preparation is mandatory. We further expect knowledge on statistics and data analysis. Familiarity with carbon transformations in aquatic systems, microbiological and/or biochemical methods such as PLFA analysis, bacterial protein production and fingerprinting are beneficial. Additionally, good background knowledge of aquatic systems is of advantage. Fluent command of the English language in speaking and writing is expected.

The position is a fixed-term contract for 28 months, and anticipated to start February, 1st 2017. Salary is according to TVöD (50% position). In keeping with the IGB's policy regarding gender equity, female applicants are particularly encouraged to apply. Disabled people with identical qualifications will be given preferential consideration.

For further information, contact Dr. Katrin Premke (premke@igb-berlin.de).

Please upload your complete application (CV, cover letter indicating research interests, motivation and experience, publications, and the name and contact details of two references) via the IGB's online-job-market at <http://www.igb-berlin.de/job-offers.html> (button "Apply online"). For full consideration, applications should be received by **2nd December 2016**.