



Leibniz-Institute of
Freshwater Ecology and Inland Fisheries

The Leibniz-Institute of Freshwater Ecology and Inland Fisheries (IGB) (www.igb-berlin.de) is the largest freshwater research institute in Germany with a mission for the generation, dissemination and application of knowledge about freshwater ecosystems. The IGB program is unique in that it combines basic and applied research for the benefit of both. Cooperating intensively with the scientific community (universities, research institutes), government agencies, as well as the private sector, guarantees the development of innovative solutions to the most pressing challenges facing freshwater ecosystems and human societies. The IGB is part of the Forschungsverbund Berlin e.V. (FVB). Within the framework of a legal entity the FVB represents eight research institutes operating in the fields of natural, life, and environmental sciences which pursue common interests while maintaining scientific autonomy. IGB is linked through joint professorship to three universities in Berlin.

The Department of Ecohydrology at the IGB offers a:

Master Thesis in Modelling of Ecosystem Function in River Networks

River networks are an important part of the global carbon cycle, processing large amounts of terrigenous organic matter (tOM) and thereby contributing significantly to CO₂ fluxes. However, little is known about how spatial variation in biodiversity at the scale of entire river networks contributes to these fluxes. To address this question, we are building a model connecting the physical/spatial processes of hydrological transport to biological processes such as gross primary productivity and respiration, as components of ecosystem metabolism, to spatial turnover in biodiversity. This model will be applied to datasets generated from past and future field campaigns in river networks of the Balkans and Central Europe.

We look for a highly motivated Master student holding a Bachelor degree in Biology, Environmental Sciences or a related field. Candidates should have experience in or a strong desire to learn ecological modelling and some knowledge of statistics; experience in the R programming language is a plus. The successful candidate will contribute to the modelling studies by applying the model to empirical datasets and may also contribute to model development if desired. She/He may also contribute to field campaigns.

We are seeking an individual with excellent verbal and written communication skills. In particular, good proficiency in English is required and the working language will be English.

For further information, please contact: **Dr. Matthew Talluto** (postdoctoral researcher at IGB): talluto@igb-berlin.de, or **Dr. Gabriel Singer** (Research group leader at IGB): singer@igb-berlin.de.

Please upload complete application documents as a **single pdf-file** via the IGB's (<https://www.igb-berlin.de/stellenangebote>) online job-application facility (button "Apply online"). For full consideration, applications should be received by **February 28, 2019**.

We are looking forward to your application!