



Leibniz-Institute of Freshwater Ecology and Inland Fisheries

IGB (www.igb-berlin.de) is the largest freshwater ecology institute in Germany. It offers excellent laboratory and field facilities for interdisciplinary research, including large-scale experimental infrastructure and long-term research programs. IGB is a member of Germany's Leibniz Association (www.wgl.de), comprising 86 institutes that cover a broad range of basic and applied research and are funded by Federal and State governments. IGB is part of the Forschungsverbund Berlin e.V. (www.fv-berlin.de), which represents eight research institutes in Berlin focusing on natural sciences, life sciences and environmental sciences, and pursuing common interests as a single legal entity while maintaining full scientific autonomy. IGB is linked through joint professorships to all three Berlin universities.

The Department of Ecosystem Research at the Leibniz-Institute of Freshwater Ecology and Inland Fisheries (IGB) in Berlin has an opening for a

PhD position: Modelling of pollutant retention processes and related ecosystem services in rivers and floodplains

The position is offered part-time (50%), starting in 2015, and limited to three years. Salary is paid according to the TVöD. The position contributes to the collaborative projects "River Ecosystem Service Index" (RESI)" granted by the BMBF, and also to the collaborative EU project "AQUACROSS" (subject to final confirmation).

The successful candidate is expected to perform the following work in close collaboration with the head of the project, IGB colleagues and other project partners:

- Modelling of processes that result in the retention of matter (nitrogen, phosphorus and other compounds) in selected river catchments in Germany and within the whole Danube catchment using MONERIS under various scenarios. A special focus will be laid on floodplains, and on potential differences between short-term and long-term retention in such self-purification processes. For that, new algorithms for retention have to be developed.
- Derivation of involved ecosystem services, trade-offs and their assessment, and visualization of those in maps.
- Elaboration of literature summaries, project deliverables, scientific publication manuscripts.
- Communication and close collaboration with related project partners.

We look for a highly motivated candidate holding a Diploma or Master's degree in a relevant subject with a sound background in environmental sciences (biology, ecology, geography, hydrology), and ideally with specific knowledge in river or floodplain ecology, and with competence for teamwork. The candidate should preferentially have experience in the handling of complex data sets and modelling. Working language at the IGB is English, while within the RESI project German will be prevailing. German language skills are therefore required.

In keeping with the IGB's policy regarding gender equality, female applicants are particularly encouraged. Severely disabled applicants with equal qualification and aptitude are given preferential consideration.

Please send applications including a letter outlining your motivation and suitability for the position, a detailed CV including a list of publications, contact details of 2 referees, and copies of educational certificates as a single PDF file (size max. 3 MB) with an e-mail with subject 'Application RESI PhD [Last name]' to pusch@igb-berlin.de. The position will be filled with the first suitable applicant. For additional information and informal inquiries, please contact the head of the RESI project, PD Dr. Martin Pusch (pusch@igb-berlin.de).

Leibniz-Institute of Freshwater Ecology and Inland Fisheries
Department of Ecosystem Research
Müggelseedamm 301, 12587 Berlin, Germany