



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](http://www.leibniz-gemeinschaft.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.

IGB invites applications for a

## **Postdoctoral research fellow in Ecohydrological Modelling**

The post forms part of the project "VeWa: Vegetation effects on water flow and mixing in high-latitude ecosystems", funded by the European Research Council. VeWa is an interdisciplinary project which investigates water and plant interlinkages and consequent water availability in ecosystems to understand future responses to change. We are assessing the role of plants in moderating water stress and possible climate change in low energy environments. For more info on VeWa please see:

<http://www.abdn.ac.uk/geosciences/departments/geography-environment/vewa-908.php>

The post is designed to conduct coupled hydrological/ecohydrological modelling. Qualifications for this position include a Ph.D. in hydrology, ecology, soil science, or a related field of environmental science. The successful candidate will be dynamic and motivated and have experience in the development and application of numerical models for various scales and environmental science contexts. The successful candidate should be experienced in combining process-based understanding with strong numerical/computational skills. Experience with programming is essential. Expertise in remote sensing & data assimilation and/or incorporation of tracers into hydrological models would be advantageous. Other advantageous background includes experience in working in interdisciplinary research projects, and working well in a team environment. Strong English language skills both in oral and written communication are also required.

The post is based at the Leibniz Institute in Berlin (Germany), but involves close collaboration with international project partners (in Scotland, Canada, Sweden, US).

The position is available from **1<sup>st</sup> October 2017** and limited to 1 year.

### **Duties and responsibilities**

- Advanced analysis of environmental data
- Development of eco-hydrological and tracer-aided models
- Dissemination of research findings through oral media
- Dissemination of research findings through writing of research articles

## Requirements

### Knowledge

- A PhD in hydrology, soil science, ecology or a relevant area of environmental science is required or in the process of submitting or correcting a PhD thesis.

### Skills

- Programming
- Hydrological modelling – development of models
- Ecological modelling – development of models
- Ability to think critically
- Ability to present complex scientific work in a range of media
- Strong communication skills
- Ability to work independently or as part of a team
- Strong English language oral and written communication skills

### Experience

- Experience in environmental hydrology, ecohydrology and/or tracer hydrology.
- A strong record of publication, commensurate with career stage, in internationally leading journals.
- Expertise in modelling research studies (essential)
- Experience with programming in MATLAB, R or another software development tool (essential).
- Demonstrable national/international recognition appropriate to career stage.
- Experience with incorporation of tracers into hydrological models (desirable).
- An interest in hydrological implications of environmental and climate change (desirable).
- Experience in working in collaborative research activities, and working well in a team environment (desirable)

Salary is paid according to the TVöD (100% position). 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.

Enquiries or questions should be directed to **Professor Doerthe Tetzlaff** ([d.tetzlaff@abdn.ac.uk](mailto:d.tetzlaff@abdn.ac.uk))

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 **23<sup>rd</sup> July 2017** via the IGB's ([www.igb-berlin.de/job-offers.html](http://www.igb-berlin.de/job-offers.html)) online job-application facility (button "Apply online").

**We are looking forward to your application!**