



The environment needs  
people like you  
who put heaven and  
earth in motion with us.



#### Your application:

Equal opportunities are an integral part of our personnel policy, we therefore particularly welcome applications from qualified women. Severely disabled persons are given priority where applicants are equally qualified.

#### Your contact for any questions you may have about the job:

Dr. Mario Brauns  
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**Place of work:** Magdeburg

**Closing date for applications:** May the 06th of 2018

**Please use our online application system for your application:**

[www.ufz.de/career](http://www.ufz.de/career)

**Helmholtz Centre for Environmental Research GmbH – UFZ**

Permoserstraße 15  
04318 Leipzig

The Helmholtz Centre for Environmental Research (UFZ) with its 1,100 employees has gained an excellent reputation as an international competence centre for environmental sciences. We are part of the largest scientific organisation in Germany, the Helmholtz community. Our mission: Our research seeks to find a balance between social development and the long-term protection of our natural resources.

Multiple stressors affect the structural integrity of major stream compartments differently, which may alter the share of the pelagic, benthic and hyporheic zone to whole-stream nutrient uptake and may be one of the reasons for the persistently elevated nutrient emissions from catchments. With the interdisciplinary project “Linking catchment scale nutrient export to pelagic, benthic and hyporheic ecosystem functioning across stressor gradients“, we will study the link between compartmental- and whole-stream nutrient uptake and its biological and hydrological controls in order to predict and manage nutrient exports from catchments under human impacts. In the framework of this interdisciplinary project, the Department of River Ecology invites applications for a:

## PhD student (m/f) in freshwater ecology

### Your tasks:

The PhD will elucidate the role of benthic and hyporheic invertebrates in controlling compartmental and whole-stream nutrient cycling and how this is regulated by multiple stressors. The work includes additions of reactive tracers and isotopically labeled nitrogen during joint sampling campaigns in various streams of the Harz/Central German Lowland Observatory ([www.tereno.net](http://www.tereno.net)), joint mesocosm experiments in our mobile experimental containers ([www.ufz.de/index.php?en=42379](http://www.ufz.de/index.php?en=42379)) as well as calculating nutrient fluxes using various modelling techniques. This work will be done in close collaboration with three other PhD students from the fields of hydrology and biogeochemistry.

### Your profile:

We are looking for a highly motivated candidate holding a Diploma or M.Sc. in ecology, biology, or related sciences who is enthusiastic to integrate different fields of freshwater ecology in an interdisciplinary project. Applicants should be trained in sampling for and analysis of stable isotope data ( $\delta^{13}\text{C}$ ,  $\delta^{15}\text{N}$ ,  $\delta\text{D}$ ), biostatistics and should have experience in conducting field and mesocosm experiments. Practical skills with the taxonomy of macroinvertebrates or hyporheic meiofauna are very much appreciated. A driving license is required. We expect the motivation to work in an interdisciplinary team of 4 PhDs as well as the capability to work independently.

### We offer:

- Top level interdisciplinary research at a research centre which enjoys an excellent reputation within Germany as well as internationally
- Excellent technical facilities
- Work in inter-disciplinary and multinational teams
- Excellent links to national and international research networks
- Support and optimal training courses by our graduate school (HIGRADE)
- Remuneration in accordance with the TVöD public-sector pay grade 13

