

# FRESHWATER AND SEDIMENT RESEARCH



BIOLOGY CENTRE CAS, INSTITUTE OF HYDROBIOLOGY  
AND  
NATIONAL RESEARCH INFRASTRUCTURE SOWA,  
ČESKÉ BUDĚJOVICE, CZECH REPUBLIC

SoWa (Soil and Water) National Infrastructure is seeking applicants for a PhD student, post-doc and researcher positions in the Freshwater Ecology and Sediment Practice area. Responsibilities will include participation in and the development of research activities in projects involving freshwater nutrient dynamics, mass balance studies, biogeochemical cycles at the sediment-water interface, suspended particles and in the sediments, ecotoxicology studies, ecological risk assessments, baseline ecological studies, environmental reviews, impact assessments and monitoring, and primary and applied research. Some travel and field work (sampling of environmental media, biological surveys) will be required.

The successful candidates will possess familiarity with freshwater ecosystems with a background in aquatic physics, chemistry and biogeochemistry of water

## About the employer

SoWa is a newly established part of the Biology Centre of the Czech Academy of Sciences, whose research predominantly addresses ecological topics, with a significant emphasis on biomedicine. The research involves collaboration across disciplines, the use of diverse methodological approaches (molecular biology, genetics, taxonomy, field ecology, mathematical modelling, etc.), and a combination of analytical and holistic approaches to problem solving. Core facilities with

and sediments. Knowledge of hydraulics, hydrodynamics, macronutrients and contaminants cycles, and mass-balance modelling is preferred. Field experience and technical knowledge in standing water and river habitat assessment/inventory, testing for chemical and non-chemical stressors, sampling methods, and freshwater ecology is desirable.

The successful candidate must work effectively in multi-disciplinary teams in the preparation of client work products and is expected to be proficient in the analysis and dissemination of information, and work cooperatively as well as independently.

Successful candidates should be familiar with Microsoft office programs such as Word, Excel and Access. Ability to work with ArcGIS and statistical software is strongly desired.

shared equipment support all of the Centre's scientific institutes. SoWa will primarily support research aimed at understanding the key physicochemical and biological processes responsible for providing ecosystem services, water runoff, water purification and nutrient cycling (particularly nitrogen and phosphorus) with emphasis on organic matter decomposition and nutrient release. The main focus will be on ecosystems under heavy anthropogenic pressure.

## Further particulars

The position is available from July 1, 2016 onwards. The position is initially offered for 12 months, with a possible extension of up to 3 years, based on initial performance. Applicants wishing to further extend their contract beyond this period will be expected to secure at least part of their research through extramural funding.

## Information

For additional information please contact:

Dr. Jakub Borovec

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FTE: 1.0

**CLOSING DATE: July 1, 2016**

## Application

Applicants should submit a complete resume, list of publications, a statement of research interest and motivation for the application, and the names and contact information of two professional references, by email with subject: SoWa to: Dr. Jakub Borovec: [jborovec@hbu.cas.cz](mailto:jborovec@hbu.cas.cz)