



BIOLOGY CENTRE CAS

Institute of Hydrobiology

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Postdoctoral researcher for modelling aquatic ecosystem of water reservoirs

The Institute of Hydrobiology (IHB; www.hbu.cas.cz) at the Biology Centre of the Czech Academy of Sciences in Ceske Budejovice, Czech Republic, is looking for a postdoc/scientist for a 2-year stay aiming at development of modelling systems for simulating hydrodynamics, biotic interactions and water quality in water reservoirs.

The IHB is the main institution in the Czech Republic engaged in comprehensive research of freshwater man-made reservoirs and natural lakes. Limnological interactions are studied both in water bodies and their catchments. The institute performs research on different levels of interactions from the ecosystem, community, population, organismal, through cellular to molecular levels. The investigations combine regular long-term ecological research at several reservoir and lake systems, comparative and methodical studies and different scale experiments that allow examining the phenomena at different time and space scales. The institute applies a holistic approach from elementary chemistry to high trophic levels and social effects on water systems. Special investigations going beyond the investigations of lakes and reservoirs involve ponds, running waters and other aquatic environment.

Project description: The successful candidate will be responsible for developing and application of models for simulating the aquatic ecosystem in deep stratified reservoirs with the purpose to analyse:

- (i) Effects of hydrodynamics, such as mixing of the water column and stratified flows, on nutrient loading into the production layer and consequences for phytoplankton growth
- (ii) Biotic interactions in the planktonic and fish communities, i.e. the trophic cascade phytoplankton - zooplankton – fish
- (iii) Responses of the reservoir ecosystem within the existing long-term historical data sets of hydrology, reservoir operation, water quality and biota and in scenarios of future climate and socio-economic conditions in the catchment

The candidate will be involved in the ongoing projects of the IHB, such as *ClimeFish* (H2020-EU3.2, No. 677039; <http://climefish.eu/>) and *Bio-manipulation as a tool for the improvement of reservoir water quality* and *MEMOBIC* (EU Operational Programme Research, Development and Education Nos CZ.02.1.01/0.0/0.0/16_025/0007417 and CZ.02.2.69/0.0/0.0/16_027/0008357, respectively).

Qualifications required: For this position the candidate must hold a PhD degree in Limnology, Oceanography, Geochemistry, Civil Engineering, Environmental Science or a related subject. We are looking for a person with proficiency in using statistical methods and mathematical models to analyse environmental data; programming skills are desirable. Candidates must be fluent in spoken as well as written English. We put great emphasis on personal suitability as cooperation, independence and a constructive approach. The required condition is that the candidate has worked in the field of research outside the Czech Republic for at least 2 years during the last 3 years.

Position: This is a fulltime temporary position for 24 months with annual gross salary 29.000 € and expected start in May 2018. If successful, the employment can be continued beyond this period.

Additional information/benefits:

Working conditions: Employment is in compliance with Czech legislation and regulations. Employees receive the benefits of the Czech social security system covering sickness, maternity/paternity leaves and injuries at work.

International Environment: The opportunity to join a prestigious research institution and become a member of a young and growing research group.

Local support: Foreign applicants will receive full support in transferring to Czechia. Knowledge of Czech is not required but the successful applicant will be offered support to take up language courses and reach a basic level of proficiency.

For further information please contact:

Prof. Josef Hejzlar, +420 387 775 876, hejzlar@hbu.cas.cz

How to apply and selection process:

Documentation submitted: Applicants should send full application consisting of (1) cover letter outlining your skills and interest in the position, (2) CV including full publication list, (3) copies of relevant diplomas, (4) documents proving 2 years of research work outside the Czech Republic during the last 3 years, and (5) contact details for at least two academic referees.

Applications and deadline for applications: The application will be send to Biology Centre CAS, Personal department, Branišovská 31, 370 05 České Budějovice, Czech Republic to an e-mail address wendula.aubrechtova@bc.cas.cz indicating ref. 'PostDoc_IM_BC-CAS_IHB' in the subject of the email, with a copy to the mentor at: hejzlar@hbu.cas.cz.

The deadline to submit the application is April 20, 2018.

Selection process: Pre-selection will be based on CV, experience, skills and motivation letter. Interviews will be done with the pre-selected candidates. Position offer will be sent to the successful candidate after the interviews.