



## MODELLING FRESHWATER FISH AND FISHERIES UNDER CLIMATE CHANGE

Biology Centre of the Czech Academy of Sciences offers **1 postdoc and 1 PhD student position to model the consequences of climate change for freshwater fish populations and fisheries.**

The project will address how environmental changes, in particular the expected increase in temperature and changes in nutrient input, are likely to affect fish populations and consequently fisheries yields. The models should provide insights into cascading effects of climate change from individuals to populations and communities. The results will provide guidance for managers and conservationists dealing with freshwater habitats.

The project will be linked to internationally funded, multi-group research projects (ClimeFish, MacFish) and utilize extensive, multi-level data currently available at the Institute of Hydrobiology (<http://www.hbu.cas.cz/en/homepage/>) at the Biology Centre of the Czech Academy of Sciences in Ceske Budejovice, Czech Republic. The PhD student will be also affiliated with the Faculty of Science of the University of South Bohemia in Ceske Budejovice (<http://www.prf.jcu.cz/en>) and supervised by Assoc. Prof. David Boukal (<http://kbe.prf.jcu.cz/en/david-boukal>), who will lead the modelling project.

### DESIRED SKILLS AND EXPERIENCE

- MSc/PhD in population or evolutionary ecology, theoretical ecology, limnology, or related fields
- interest in modelling individual life histories, population dynamics or food webs
- good knowledge of programming in R, Matlab, C/C++, or Mathematica
- excellent written and spoken English
- postdoc applicants: promising publication record commensurate with the career stage
- prior knowledge of aquatic ecosystem processes and past work in multidisciplinary environment will be preferred

### POSTDOC POSITION DETAILS

Target start date is April 2015 (negotiable). Initial appointment will be for 12 months, with an extension for up to 5 more 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. We offer a highly competitive salary in local standards (28000–56000 CZK monthly, before taxes) commensurate with the applicant's experience and skills. Successful applicant will be encouraged to develop his/her own research agenda compatible with the overall aims of the project.

### PHD POSITION DETAILS

Target start date is September 2015 (negotiable). Initial appointment will be for 36 months, with an extension for up to 3 more year to complete and defend the thesis. The student will receive a stipend from the University (ca. 10000 CZK monthly, exempt from taxes) topped up with a part-time position at the Institute of Hydrobiology (up to 10000 CZK monthly, before taxes, depending on the applicant's profile).

### HOW TO APPLY

Interested applicants should email the following documents to Prof. Jan Kubečka ([kubecka@hbu.cas.cz](mailto:kubecka@hbu.cas.cz)) **7 March 2016.**

- 1) Cover letter outlining main research interests
- 2) CV including full publication list
- 3) Copy of PhD (postdoc position) or MSc (PhD position) diploma
- 4) Copies of 1–2 relevant publications (optional for PhD position)
- 5) Contact details for 3 (postdoc position) or 2 (PhD position) references.

Preliminary enquiries are welcome.

#### **BACKGROUND**

Ceske Budejovice is a medium-sized town ca. 150 km south of Prague with 100,000 inhabitants, a relaxed atmosphere, and a growing expat community at the Biology Centre and the University. Both the town and the surrounding countryside provide numerous opportunities for research and leisure activities.

Living costs are low by international standards. Foreign applicants will receive support in transferring to the Czech Republic. The Institute can also help secure non-commercial accommodation, and PhD students have access to accommodation in dormitories at the campus shared by the Biology Centre and the University. Czech courses are available for foreign staff and students to reach a basic level of proficiency in everyday situations.