ESR06 - HYDRODYNAMICS OF FISH HABITATS IN NATURAL STREAMS: IMPLICATION FOR FISH BEHAVIOUR

(https://www.mscaribes.eu/research/wp2/esr06)

Host Institution: IGB (https://www.mscaribes.eu/consortium/beneficiaries/igb) - Leibniz Institute of Freshwater Ecology and Inland Fisheries

Location: Berlin (Germany)

Doctoral degree: PhD in Biology at the Freie Universität Berlin

Job description: The candidate is supposed to plan, execute, post-process and analyse field experiments and measurements (including construction of in-stream facilities, measurements of fish trajectories with underwater cameras, flow characteristics with ADV and ADCP, drag force on the model fish, visibility in turbulent flow). It is also expected that during the two secondments the candidate will be working with fish recognition software and will be introduced into techniques of laboratory experimentation. On the later stage the candidate will be involved into individual-based modeling of fish and their usage of habitats with the use of in-house developed software. Further tasks include organization and support of a data base of the studies, writing reports and drafting the scientific papers, participation in the scientific conferences and the events of the consortium network.

Workplace: The candidate will be provided with the office space at IGB which includes a personal computer, specialized software, access to library, internet and printers. For the field works the candidate will use equipment (IDV, ADCP, total station, cameras), field vehicle, portable boats, and specialized equipment of IGB for eco-hydraulic studies.

Secondment period (to be confirmed): Expected duration: 5 months; Hosting institutions: UNIABDN (University of Aberdeen - Aberdeen, UK), TALTECH (University of Tallinn - Tallinn, Estonia), POLITO (Politecnico di Torino - Torino, Italy), IGM (Ingenieurbüro Dr Gerald Müller - Germany)

RECRUITMENT

Candidate requirements:

Degree: MSc in Fish Biology / Environmental or Civil Engineering (available by the date of application)

Specific mandatory skills:

- Proficiency in English and Italian
- Driving license valid for EU countries

Specific desirable skills:

- Experience in field research
- Basic skills for video-making and processing
Specific requirements of the Doctoral School:

A thorough proficiency in English is necessary, i.e. level B2 or equivalent proof six years of English instruction at school (if the language level is not shown on the (school) certificate) IELTS 5.0. The related documentation should be already provided as an attachment to the RIBES application form. However, English proficiency will also be checked by the Selection committee during the interview.

Mobility rule:

Applicants must not have resided or carried out their main activity (work, studies, etc.) in Germany for more than 12 months in the 3 years immediately before the recruitment date. Compulsory national service, short stays such as holidays, and time spent as part of a procedure for obtaining refugee status under the Geneva Convention are not taken into account.

The ESRs will be trained by international leaders in the interdisciplinary field of Ecohydraulics to find innovative solutions for freshwater fish protection and river continuity restoration in anthropogenically altered rivers.

The positions are offered full-time for 3 years (36-months)

Starting date is negotiable with the host institution in the second semester 2020 (from June to December 2020), also taking into account potential travel restrictions related to COVID-19. Enrolment in the Doctoral Schools is foreseen by December 2020.

APPLICATION PROCEDURE

Deadline (first round): May 31st, 2020

Download the Call and the Application Form here: https://www.msca-ribes.eu/research

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