



The Leibniz-Institute of Freshwater Ecology and Inland Fisheries ([www.igb-berlin.de](http://www.igb-berlin.de)) is the largest research institute for freshwater research in Germany. It is member of the Leibniz Association and the Forschungsverbund Berlin e.V. IGB has close links to all three universities in the German capital and currently hosts about 50 doctoral students from approximately 15 different nations. Since 1996, the IGB has been committed to research on sturgeon aquaculture, remediation and restoration, including several national and international projects and programmes. Within EU ERA-Net, the COFASP project STURGEoNOMICS (subject to approval of the Federal Office for Agriculture and Food, BLE) involves France, Romania, and Germany. At the IGB, the Research Group Applied Fish Physiology and Aquaculture, led by Dr. Sven Würtz, is looking for a hard-working, enthusiastic

## PhD student

### Functional genomics for aquaculture - growth, sex determination and disease resistance (WP4)

from now on for a 3 year period

Within STURGEoNOMICS, whole genome-based approaches will be explored to improve sturgeon aquaculture, working on two species of sturgeon. The PhD candidate will experimentally extract candidate genes related to target traits (growth, disease resistance, sex determination) for an optimization of management strategies as well as breeding. During the project the candidate will be able to work collaboratively on high quality genome information and transcriptomics to determine the genetic basis of variability in disease resistance and growth during early development as well as sex determination and early sex differentiation. This work is an essential prerequisite for future selective breeding in order to improve rearing in aquaculture (aiming at maximized growth and disease resistance, as well as early determination of sex and subsequent selection of females for caviar production). The candidate will spend up to 6 months in the facilities of the other partners, which will enhance multidisciplinary training of the student, and give him/her important experience of both academic and non-academic sectors (sturgeon farming).

Applicants should have a 2.1 degree or equivalent in a relevant life science (bioinformatics, molecular biology, fisheries sciences, aquaculture). Excellent communication skills in English are required. Experience with molecular techniques (e.g. genome and transcriptome analysis, next generation sequencing) and fish rearing is highly preferred. Candidates with a background in aquaculture will be deemed highly competitive.

Salary will be according to TVöD (50%). In keeping with the IGB's policy regarding gender equity, female applicants are particularly encouraged. Among candidates of equal aptitude and qualifications, a person with disabilities will be given preference. This position is subject to approval of the responsible funding body (Federal Office for Agriculture and Food, BLE).

Enquiries or questions should be directed to work leader Dr. Sven Würtz ([wuertz@igb-berlin.de](mailto:wuertz@igb-berlin.de)) or project coordinator Dr. Matthias Stöck ([matthias.stoeck@igb-berlin.de](mailto:matthias.stoeck@igb-berlin.de)).

Review of applications meeting the required standards will start immediately and continue until a candidate is appointed. Please upload your application no later than **31<sup>st</sup> October 2017** via the IGB's (<http://www.igb-berlin.de/en/jobs>) online job-application facility (button "Apply online").