



# UNIVERSITÄT KOBLENZ · LANDAU

The **Faculty 7: Natural and Environmental Sciences** at the University of Koblenz-Landau invites applications for a

## PhD position (part time 60%)

at the **Institute for Environmental Sciences – Working Group of Functional Aquatic Ecotoxicology** at the **Campus Landau/Pfalz, Germany**. The successful applicant will work in the DFG project „The relevance of the BIOdiversity TO FUNction relationship in heterotrophic aquatic systems under stress (BIO2FUN)”. The appointment is for **3 years** and salary will be according to 60% of the German public service salary scale TV-L 13.

### Topic:

The PhD study investigates the stress tolerance of complex pristine microbial communities as well as communities either adapted to a mixture of organic micropollutants and nutrients (stressor-unspecific tolerance) or fungicides (stressor-specific tolerance) originating from wastewater treatment plant effluents and vineyard runoff, respectively. Those communities' leaf decomposition efficiency will be quantified under exposure towards increasing levels of nutrients and fungicides. By linking these responses to traits (e.g. enzymatic inventory and nutritious quality in the form of amino and fatty acid compositions) of individual aquatic fungal species, BIO2FUN aims at disentangling the underlying mechanisms. Moreover, those variables allow for an estimation of the nutritious quality of leaves for shredders, which will finally be verified experimentally by assessing physiological consequences in leaf shredding invertebrates. As a member of the Functional Aquatic Ecotoxicology group and in close cooperation with the Ecotoxicology & Environment group, the PhD candidate will have access to state-of-the-art equipment and will work within the young and interdisciplinary team of researchers at the Institute for Environmental Sciences.

### Requirements:

The successful candidate holds a degree (M.Sc. or equivalent) in a relevant field (e.g., biology, ecology, ecotoxicology, environmental sciences, landscape ecology), has a strong background in freshwater ecology, stress ecology, ecotoxicology, microbial ecology, and is fluent in English language. She/he has documented knowledge and experience in handling and experimenting with microorganisms or invertebrates and the necessary practical skills to perform molecular biological, microbial and biochemical analyses. She/he has a car driving license. She/he is willing to work both in the lab and the field.

Please contact **Jun.-Prof. Dr. Mirco Bundschuh** ([bundschuh@uni-landau.de](mailto:bundschuh@uni-landau.de)) for further information.

It is the policy of the University Koblenz-Landau to increase the percentage of female employees. If equally qualified, preference will be given to female applicants in fields where they are underrepresented. Disabled candidates are given priority, if equally qualified (please attach a proof). International candidates are highly encouraged to apply.

Applications should include a letter of motivation, a complete curriculum vitae including an overview of software skills and a letter of recommendation from a referee. Please send your application, quoting the reference number **122/2018 before 20.11.2018 via email in a single pdf document to [bewerbung@uni-koblenz-landau.de](mailto:bewerbung@uni-koblenz-landau.de)** .

We do not send a confirmation of receipt. In accordance to the protection of data privacy all documents will be destroyed after the application procedure.

[www.uni-koblenz-landau.de/uni/stellen](http://www.uni-koblenz-landau.de/uni/stellen)