

The Leibniz Centre for Tropical Marine Research ([www.leibniz-zmt.de](http://www.leibniz-zmt.de)) in Bremen is a member of the Leibniz Association, which is supported by the German Federal and State Governments. Through its research, ZMT contributes to developing science-based strategies for sustainable use of tropical coastal systems.

The Working Group 'Ecophysiology' at ZMT invites applications for a

## PhD Student Position

(Reference number: 93 - Ecophysiology)

for the project AUV Water, Anti-Biofouling. The PhD - position is planned to commence on Dec. 2018.

### Duties and responsibilities:

UV-Disinfection units are a common part of water treatment for different applications and will also play an important role in the future. Those units disinfect the treated water or significantly reduce the number of unwanted micro-organisms such as bacteria, algae, viruses and protozoans. Recently also LED units started being used, however their performance is still not comparable to Hg lamps. In addition to bacteria there are persistent molecules that need additional treatment. The major aim of AUV Water is to combine highly efficient UV-LED units with photo-catalytic surfaces and antifouling agents and use new reactors in aquaristics, aquaculture, process-water in industry and drinking water treatment. In collaboration with two companies the ZMT is will work on the photo-catalytic and antifouling surfaces and demonstrate their practical application as well as the safe use with sensitive invertebrates.

### Requirements:

Applicants should hold a Master or Diplom degree in aquaculture, marine biology, ecology or related fields and should ideally have demonstrated experience in aquaculture and/or marine aquaristics and physiology. Particular focus is on animal handling, and molecular and physiological methods. They should also fluently speak English and possess good scientific writing skills. Prior experience working abroad in difficult field conditions is preferred.

For additional information, please **contact:** Dr. A. Kunzmann ([andreas.kunzmann@leibniz-zmt.de](mailto:andreas.kunzmann@leibniz-zmt.de)).

### We offer:

- An exiting working environment in an interdisciplinary and internationally oriented institute and research project
- Possibilities to build and extend an international professional network and participate in a research field of high public and scientific interest
- A family-friendly work environment

The candidate will be on a three years contract. Salary will be paid according to the German TV-L EG 13. The post will be filled as a PhD (66,6%) position. ZMT is an equal opportunity employer. Applicants with a migration background are welcome. Disabled persons with comparable qualification receive preferential status.

Please send your application (a motivation letter, a copy of the master's (diplom) certificate, a complete CV with a list of publications and skills, names with email addresses and phone numbers of two referees) until October 31<sup>st</sup> 2018 **as a single pdf file** with the reference number "93 - Ecophysiology" to Mrs. Lena Oehlmann, E-Mail: [bewerbung@leibniz-zmt.de](mailto:bewerbung@leibniz-zmt.de).

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