

The Leibniz Centre for Tropical Marine Research (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: 106 - Ecophysiology)

for the project Sea Grapes. The PhD - position is planned to commence in March 2019.

Duties and responsibilities:

Asian countries are experts in sustainable mariculture. Co-culture approaches, products low in the food web and the direct consumption of algae as natural part of diet play a particularly important role. Sea grapes (also called green caviar, *Caulerpa lentillifera*) are green macroalgae with an extremely high value, high demand in Japan, China and Singapore, high nutrient values, antioxidant performance and they were recently discovered by the gourmet kitchen. Sea grapes have a big potential to contribute to food security and sustainable aquaculture. In this project we want to explore details of the physiology (incl. antioxidants and secondary metabolites) and ecology of this macroalga, test the suitability for co-culture (ideally as two-layer-cultivation with a high-value red seaweed) with the aim to increase quality and production, and explore the bioremediation potential. The Institute of Oceanography IO, Vietnam, contributes significant expertise and chemical and biological laboratories, and will co-supervise PhD/MSc students. The company VIJA, exporting regularly to Japan, will contribute infrastructure, facilities and staff.

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 organism handling, and molecular and physiological methods. They should also speak English fluently 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).

We offer:

- An exciting 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 working 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 Student position (66,6%).

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 telephone numbers of two referees) until January 31st 2019 as a **single pdf file** with the reference number "106 - Ecophysiology" to Mrs. Lena Oehlmann, E-Mail: bewerbung@leibniz-zmt.de.

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