ZMT LEIBNIZ CENTRE for Tropical Marine Research

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

Post-Doctoral Position

(Reference number: 117 - Food for the Future)

for the project F4F - Food for the Future. The Position is planned to commence in May 2019.

Duties and responsibilities: Medusae are commonly seen as robust, noxious and unwelcome animals. In recent decades, reports concerning jellyfish outbreaks and invasions are increasing worldwide. Climate change and anthropogenic influence are considered the main reasons for blooming medusae. They are protein-rich animals, with protein making up to 50% of the total dry weight. The enormous biomass of yearly and naturally growing medusae is an economic source of protein and carbohydrates and a direct use in the nutrient cycle could avoid significant damage at other locations. At the same time targeted cultivation of medusae, with optimized nutrient composition, based on low effort and low production cost methods, could represent a comparatively cost-effective source of nutrition, both for a) direct consumption (incl. as delicacy, see Japan, China) and b) as raw material for protein and carbohydrate supply. As we assume that the nutrient composition of medusae can be adjusted, and there is a potential to specifically enrich secondary metabolites and certain pro-vitamins, there would be a significant added economic value for selected species. As aquaculture has been the fastest growing sector (> 7.3 %) of food production in the last 10-15 years, this project intends to explore medusae aquaculture from biological, fisheries, economic, social and nutrition point of views.

Requirements: Applicants should hold a PhD 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, demonstrated through peer-reviewed publications. Prior experience working abroad in difficult field conditions is mandatory.

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

Details of position: The candidate will be on a three-year contract. Salary will be paid according to the German TV-L EG 13, 100%. ZMT is an equal opportunity employer. Applicants with a migration background are welcome. Disabled persons with comparable qualification receive preferential status.

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

Submission of application: Please send your application (a motivation letter, a copy of the PhD and master's (diplom) certificate, a complete CV with a list of publications and skills, names with email addresses and telephone numbers of two referees) by March 31, 2019 as a single pdf file with the reference number "117 – F4F Ecophysiology" to Mrs. Lena Oehlmann, email: bewerbung@leibniz-zmt.de.

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