

The Leibniz Center for Tropical Marine Ecology (ZMT) 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 ([www.leibniz-zmt.de](http://www.leibniz-zmt.de)). In the working group Resource Management we have a position available for a

## Postdoctoral Researcher

(Reference number: Resource Management 2016 - 3)

**Description of working group activities:** The working group Resource Management, one of three working groups of the Dept. of Theoretical Ecology and Modelling, focuses on modelling approaches that explore optimal resource use strategies in terms of their impacts on population dynamics, ecosystem health, and socio-economic indicators. Presently, the group applies traditional fish stock assessment methods and dynamic trophic modelling (Ecopath with Ecosim) approaches for an ecosystem-based approach to fisheries and resource management. Working in a diverse range of coastal ecosystems worldwide, the projects combine the assessment of current ecosystem and fisheries' status with the analysis and modelling of historical dynamics in order to better understand resource and ecosystem dynamics and to predict future outcomes.

**Job description:** The postdoctoral candidate is expected to develop research projects with an emphasis on the modelling of resource dynamics and the development of ecosystem-based methods that aim at improving management. In this context, the fields of spatial statistics, GIS and marine spatial planning for Marine Protected Area delimitation and general coastal management are to be further developed. Related to these activities, the candidate is expected to conduct a monthly "Statistics round table" at the ZMT in order to offer a dynamic forum for the discussion and training in the use of modern statistical tools. The candidate is also expected to participate in the supervision of PhD students of the working group and in the teaching within the modelling module of the ISATEC Master of Science Programme of ZMT and Bremen University.

### Personal specification

- Doctorate in fisheries ecology or related field (required)
- Experience in modelling at the population and/or ecosystem level (required)
- Experience with basic fish stock assessment methods (desired)
- Experience in statistical analysis and basic programming (e.g. R, Primer) (required)
- Experience in the use of GIS and spatial planning tools (required)
- Teaching experience (desired)
- Experience in project development /management (desired)

The employment envisages a 100% position (based on TV-L 13) to be filled for 3 years with possibility of extension. Starting date is April 1, 2016. ZMT is an equal opportunity employer. Disabled persons with comparable qualification receive preferential status.

Interested candidates are invited to send their complete application including a motivation letter, a short CV with list of publications and skills, and contact information of two referees, and the reference number "Resource Management 2016 - 3" via e-mail as a single pdf file to Ms. Jessica Vince ([bewerbung@leibniz-zmt.de](mailto:bewerbung@leibniz-zmt.de)) by January 15, 2016. In case of any questions, please contact Prof. Dr. Matthias Wolff, e-mail ([matthias.wolff@leibniz-zmt.de](mailto:matthias.wolff@leibniz-zmt.de)). Leibniz-Zentrum für Marine Tropenökologie (ZMT) GmbH, Fahrenheitstraße 6, D - 28359 Bremen.

For financial reasons we cannot refund travel expenses for the job interview.