

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 ZMT has one position available for a

Student helper in Tropical Marine Microbiology

(Reference number: 65 - Tropical Marine Microbiology)

Description:

The Research Group 'Tropical Marine Microbiology' at the Leibniz Centre for Tropical Marine Research in Bremen seeks a student helper with a background possibly in microbiology, molecular biology or biochemistry. The student helper will support the research group, headed by Dr. Astrid Gärdes, by conducting laboratory analyses related to ongoing research projects.

The research group 'Tropical Marine Microbiology' focuses on the investigation of microbial communities in tropical marine waters and the processes these microbes are involved in, such as organic matter recycling and pathogen distribution. Of particular interest is the role of microbes in aquaculture systems in Asian countries, which provide the majority of the world's aquaculture produced fish. Current aquaculture practices are often not sustainable with strong detrimental impacts on the local ecosystem. The work of the research group aims to characterize and quantify microbial communities, assess organic matter load and recycling processes mediated by microbes, and the prevalence and distribution of potentially pathogenic microbes in intensive fish aquaculture areas.

Concretely the tasks of the student helper will comprise of:

Conduct laboratory analyses to characterize microbial communities and organic matter components in the water column of an intensive fish aquaculture area in the Philippines. Specifically, the tasks will include:

- Enumeration of microbial cells (microscopy, image analysis)
- Quantification of transparent exopolymers
- Possibly RNA/DNA extractions and quantitative PCR

Background of applicants:

- Background: microbiology, molecular biology, biochemistry
- Effective time management
- Ability to work self-dependent under direct guidance
- Language skills: German and/or English

Details of Position:

- around 10 hrs/week

Additional information: For additional information, please contact:

Dr. Astrid Gärdes, E-Mail: astrid.gaerdes@leibniz-zmt.de

Submission of Application: If you are interested in applying to this position, please send your application letter including a short CV and the reference number "65 - Tropical Marine Microbiology" via E-Mail as a single pdf file to Ms. Lena Oehlmann (bewerbung@leibniz-zmt.de) by February 28, 2018.

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