The MARUM - Center for Marine Environmental Sciences at the University of Bremen, is offering (under the condition of job release)

**One Ph.D. position (f/m/d) for 3 years, starting at the next possible date.**

**Salary group 13 TV-L (66.6%)**

The employment is fixed-term and governed by the Act of Academic Fixed-Term Contract, §2 I Wissenschaftszeitvertragsgesetz – WissZeitVG. Therefore, candidates may only be considered for appointment if they still have the respective qualification periods available in accordance with § 2 (1) WissZeitVG.

At MARUM Ph.D. students are supervised by a team of experienced scientists. Additional training and support are offered by the Bremen International Graduate School for Marine Sciences, GLOMAR. These offers include expert as well as skills and methods courses, coaching, networking opportunities, and the opportunity to compete for internal funds. At MARUM, Ph.D. students acquire expert knowledge in their field and a solid background across many disciplines of marine sciences.

The Cluster of Excellence “The Ocean Floor – Earth’s Uncharted Interface” is part of the Research Faculty MARUM. Within the Enabler "Molecular and Isotopic Tracers" the work for the position lies in the general area of Organic Biogeochemistry. One overarching goal of this Ph.D. project will be the development of new lipid-based assays for the determination of microbial activity in marine sediments.

**Specific duties will include:**

1. Determination of the lipidome of microbial cultures and marine sediment samples.  
2. Anaerobic handling of pure cultures and enrichments from marine sediments.  
3. Quantification of isotope label incorporation into microbial lipids and small metabolites via high-resolution mass spectrometry, isotope ratio mass spectrometry and in the case of radiotracers by scintillation counting.  
4. Presentation of research results at international conferences.  
5. Publication of research results in peer-reviewed scientific journals.  
6. Opportunity for scientific qualification in the context of a PhD degree

**Your profile:**

- A completed MSc degree, preferably in the Geosciences and/or Chemistry  
- Experience in lipid-based isotope tracer techniques such as stable isotope probing, and/or radioisotope probing.  
- Experience in high performance liquid chromatography and high-resolution mass spectrometry, the latter ideally in combination with analysis of molecular isotopologues.  
- Experience with cultivation of microbial isolates and anaerobic handling of samples.  
- Experience in marine science and/or geochemical laboratory methods, and strong interest in analytical innovation.
• Applicants should have excellent English language skills and enjoy working in an international and interdisciplinary team.

MARUM has developed into an internationally recognised centre for marine research with a focus on the geosciences, anchored at the University of Bremen.

The University of Bremen follows a diversity strategy. It strives to increase the number of women in the academy and strongly encourages applications from suitably qualified female candidates. International applications and applications of academics with a migration background are explicitly welcome. Disabled persons with the same professional and personal qualifications will be given preference.

We look forward to receiving your application either in German or in English with the usual documents until the 26 June 2020. Please send your application under the reference number A53/20 to:

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or by email to: khinrichs@uni-bremen.de