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

**Ph.D. position (f/m/d) for 3 years, starting from January 1, 2023**

**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 Recorder Theme 1 "Perturbations in the Earth system" the work for the position lies in the general area of Molecular Isotope Geochemistry. The overarching objective of this Ph.D. project is the examination of uptake mechanisms of pre-aged carbon, both at the ocean surface or at the seafloor, into marine carbon cycling and evaluation of its significance.

**Specific tasks will include:**

1. Molecular and isotope, including compound-specific radiocarbon, analysis of specific lipids in environmental samples to unravel effects of pre-aged carbon uptake on aquatic carbon cycling and its entrainment in sedimentary archives.
2. Presentation of research results at international conferences.
3. Publication of research results in peer-reviewed scientific journals.
4. Opportunity for scientific qualification in the context of a PhD degree

**Your profile:**

- A completed MSc degree, preferably in the Geosciences.
- Background in organic geochemistry or biogeochemistry, carbon cycling processes, and (geo)chemical laboratory methods.
- Experience in the analysis of organic molecules in environmental samples, preferentially including compound-specific isotope analyses and radiocarbon data processing.
- Applicants should have excellent English language skills and enjoy working in an international and interdisciplinary team.
- Interest in participating in seagoing expeditions and in collaborating with international partners of the Cluster, possibly in the context of a research stay at an international academic institution.
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 essentially 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 19th August 2022. Please send your application under the reference number A206/22 to:

Universität Bremen
MARUM
Dr. Enno Schefuß
Postfach 33 04 40
D-28334 Bremen

or by email to: eschefuss@marum.de