The Cluster of Excellence “The Ocean Floor – Earth’s Uncharted Interface” at the MARUM - Center for Marine Environmental Sciences, University of Bremen, is offering (under the condition of job release)

one Ph.D. position (f/m/d) for 3 years
earliest possible starting date is January 1st, 2023
salary group TV-L 13, (66,66%)

in Palynology and organic Geochemistry

The employment is fixed-term and governed by the Act of Academic Fixed-Term Contract (i.e., §2 (1) Wissenschaftszeitvertragsgesetz – WissZeitVG). Therefore, candidates may only be considered for appointment if they still have the respective qualification periods available by § 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 Ph.D. project is in the framework of the Cluster of Excellence “The Ocean Floor – Earth’s Uncharted Interface” (https://www.marum.de/en/The-Ocean-Floor.html), which is part of the Research Faculty MARUM. Within the project Ocean Floor as RECEIVER (https://www.marum.de/en/The-Ocean-Floor/Research-Unit-RECEIVER.html), the work for the position is in the general areas of Organic Geochemistry and Palynology.

The project aims to determine the molecular change of organic -walled microfossils of known origin in relationship to early diagenetic processes in different redox regimes in water column and surface sediments. This will increase our understanding of ocean carbon sequestration. Specific tasks will include:

- Determining species specific molecular characteristics of selected resistant as well as labile organic-walled dinoflagellate cysts with micro-FTIR and pyrolysis-GC/MS.
- Determining changes in the molecular characteristics of these cysts by early diagenetic processes in the water column and sediments
- Exploring the potential use of the molecular characteristics of dinoflagellate cysts to quantify the oxygen state of the ocean floor and to make quantitative reconstructions of surface-water productivity and/or ocean carbon sequestration.
- Opportunity for scientific qualification in the context of a PhD degree
Your profile:

- A completed MSc or Diploma degree in geoscience, marine biology, physical geography, environmental sciences or related fields
- Knowledge and experience in marine palynology and/or organic geochemistry, notably of dinoflagellate cysts.
- Experience with the techniques of micro-FTIR and/or (pyrolysis-)GC/MS
- A strong quantitative/statistical background is of advantage
- Applicants should be highly proficient in English, have excellent skills in scientific writing.

MARUM is an internationally recognized center for marine research, 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 in English (CV + cover letter).

Applications should be sent with the reference number A217/22 until August 31st, 2022 to:

Prof. Dr. Karin Zonneveld
MARUM – Zentrum für marine Umweltwissenschaften
Universität Bremen
Leobener Straße 13
28359 Bremen

or alternatively by e-mail to: kzonneveld@marum.de