



The Ocean in the Earth System

MARUM - Center for Marine Environmental Sciences

The Research Center / Cluster of Excellence "The Ocean in the Earth System" (MARUM) at the University of Bremen, Germany, has the overarching scientific goal to achieve a better understanding of key processes in the marine. The research themes are: Ocean and Climate, Geosphere-Biosphere Interactions and Sediment Dynamics

MARUM invites applications for a **PhD position** in the DFG project on "Tracing ocean pH/acidification at the Early Jurassic (Pliensbachian-Toarcian) and Permian Triassic extinction events". We seek an enthusiastic and dynamic researcher with a strong interest in analytical chemistry. The PhD student will be part of the Isotope Geochemistry group at the MARUM – Center for Marine Environmental Sciences and Faculty of Geosciences, University of Bremen.

This project is one of nine projects embedded in the interdisciplinary Research Unit FOR 2332 TERSANE: Temperature-Related Stresses as a Unifying Principle in Ancient Extinctions. The research unit combines high-resolution geological field studies with meta-analyses, physiological studies and sophisticated analysis of fossil occurrence data on ancient hyperthermal events to reveal the rate and magnitude of warming, potential causes, impact on marine life, and the mechanisms which led to ecological change and extinction. Geochemistry, analytical paleobiology and physiology comprise our main toolkits. Main participating institutions are the GeoZentrum Nordbayern, Friedrich-Alexander University Erlangen-Nuremberg; Museum für Naturkunde Berlin, Leibniz Institute for Evolution and Biodiversity Science; MARUM – Center for Marine Environmental Sciences and Faculty of Geosciences, University of Bremen; Helmholtz-Zentrum für Polar- und Meeresforschung, Alfred Wegener Institute.

The successful candidate will focus on isotope (boron, carbon, oxygen) and elemental analysis of carbonates and the reconstruction of Permian to Triassic and Early Jurassic environmental conditions. The work also involves mapping, measuring of carbonate sections and collecting samples for geochemical analyses in Iran, Spain and Portugal. Fieldwork and analyses occur in connection with other projects within the Research Unit. Applicants are expected to participate in weekly informal seminars, annual workshops and international summer schools with others members of the research unit

Requirements:

- Completed MSc or equivalent in geosciences
- Background knowledge in geochemistry and basic knowledge in sedimentology and mineralogy
- Experience in fieldwork

- Operational experience in multicollector mass spectrometry and clean laboratory techniques will be of advantage
- Applicants should have excellent English language skills and enjoy working in an international and interdisciplinary team

The position is for a fixed term of 3 years. The earliest starting date is 1st of July 2016. Salary corresponds to 2/3 TV-L E13.

The University of Bremen has received a number of awards for its gender and diversity policies and is particularly aiming to increase the number of female researchers. Applications from 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.

Applicants should submit under the reference number A112/16 their letter of motivation, a CV including copies of certificates, a publication list if applicable, and contact information of two referees. Documents should be submitted to

Prof. Dr. Simone Kasemann
MARUM, Universität Bremen
Leobener Straße
28359 Bremen

or electronically as a PDF file (maximum size 2 MB) to Simone Kasemann (skasemann@marum.de). The call is open until the position is filled. The review of applications will commence on 21th June 2016.

Further enquiries can be addressed to

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More information on TERSANE is available at: <https://www.paleo-reefs.pal.uni-erlangen.de/TERSANE>

More information on research and technology at the MARUM is available at www.marum.de