The MARUM - Center for Marine Environmental Sciences at the University of Bremen, is offering (under the condition of the grant by the funding party and of job release) at the earliest possible date:

**PhD position (f/m/d) in paleoclimate modeling**

German federal pay scale E13 TV-L (66,66 %),
limited until 30.6.2024

The employment is fixed-term and governed by the Act of Academic Fixed-Term Contract, §2 (1) 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 PhD 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, PhD students acquire expert knowledge in their field and a solid background across many disciplines of marine sciences.

The PhD project is in the framework of the Collaborative Research Center “Energy Transfers in Atmosphere and Ocean” ([www.trr-energytransfers.de](http://www.trr-energytransfers.de)) and focuses on paleoclimate applications of mixing parameterizations in an Earth-system model:

The project focuses on the derivation of the tidal forcing of IDEMIX for different paleoclimate states. Tidal current information will be obtained from running a tidal inversion software with topographies representative of the Last Glacial Maximum and the mid-Cretaceous, respectively. The coupled modeling system will be applied to the mid-Cretaceous as a warmer-than-today climate state, in order to address the hypothesized mode of deep-water formation in low latitudes.

Your profile:

- Completed MSc or equivalent qualification in (climate) physics, physical oceanography, atmospheric science, Earth sciences or a related field with strong mathematical background
- Knowledge of climate or ocean dynamics
- Experience in numerical modeling, scientific programming (e.g. C++, Fortran) and UNIX-style operating systems
- The applicant should be highly proficient in English, have excellent skills in scientific writing, and enjoy working in an international and interdisciplinary team.

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 A271/20** until **January 22, 2021** to:
Dr. André Paul
MARUM – Zentrum für Marine Umweltwissenschaften und Fachbereich Geowissenschaften
Universität Bremen
Klagenfurter Straße 2-4
28359 Bremen

or by e-mail to: apaul@marum.de

Review of applications will start on January 23, 2021.