The UNIVERSITY OF BREMEN, Faculty 05 / Geosciences is offering the position of a Ph.D. (f/m/d)

Salary level 13 TV-L with 67 % of the full working time per week, in the Isotope Geochemistry Group limited for the duration of 36 months, starting on the 1st of July or as soon as possible after that date.

The employment is regulated 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.

Job description

We seek an enthusiastic and dynamic researcher with a strong interest in analytical chemistry to work on the DFG project entitled "Chemical weathering and the onset of biomineralization on the Planet during the Late Ediacaran". 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.

The project is part of the international and interdisciplinary Geological Research through Integrated Neoproterozoic Drilling - The Ediacaran-Cambrian Transition (GRIND-ECT) initiative, supported by the International Continental Scientific Drilling Program (ICDP). GRIND-ECT involves numerous research institutions around the world. One of aims is to understand the relationship between palaeoenvironmental changes in the Earth system and rise of complex life during the Ediacaran-Cambrian transition, about 560 to 530 million years ago.

The successful candidate will focus on isotope (lithium, magnesium, calcium) and elemental analysis of marine carbonate rocks to trace changes in continental weathering between 560 and 545 Ma. The ultimate goal is to test the hypothesis that enhanced nutrient and alkalinity discharge from the continents to the ocean created ideal conditions for the onset of biomineralization on Earth. The work also involves collecting core samples at the ICDP core repository in Berlin and possible participation in drilling campaigns in Brazil, Namibia and China. The project will be carried out in collaboration with partners from the Universities of Edinburgh and São Paulo, who will also provide support in stratigraphy and palaeontology. Applicants will be expected to attend weekly meetings of the Isotope Geochemistry group at MARUM, annual meetings with project partners and international conferences.

Requirements

- Completed MSc or equivalent in geosciences
- Background knowledge in geochemistry and basic knowledge in sedimentology, mineralogy and palaeontology
- Willingness/ability to extended work in sample preparation and in the chemistry laboratory
- Operational experience in multi-collector mass spectrometry and/or clean laboratory techniques will be of advantage
- Experience in fieldwork
- Applicants should have good English language skills, both oral and written, and enjoy working in an international and interdisciplinary team
- Programming skills and/or first experiences in the use of high-performance computing facilities would be an asset.
The University of Bremen intends to increase the proportion of female employees in natural sciences; women are therefore particularly encouraged to apply. In case of equal personal aptitudes and qualification, disabled persons will be preferentially considered. The University of Bremen explicitly invites persons with migration background to apply.

Questions regarding the job advertisement will be answered by Dr. Gustavo Macedo de Paula Santos via e-mail gsantos@marum.de.

Applications containing a motivation letter, a CV including copies of certificates, a publication list if applicable, and contact information of two referees should be submitted until June 13th, 2022 under the reference number A154/22 to:

Dr. Gustavo Macedo de Paula Santos
MARUM, Universität Bremen
Leobener Straße
28359 Bremen

as one PDF document to gsantos@marum.de