Post-Doctoral Researcher

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

One post-doctoral Researcher (f/m/d)

Salary group 13 TV-L / full-time position

The position is limited for one year starting 01.07.2020.

MARUM provides an ideal environment for postdoctoral researchers to become excellent in their field of expertise and to develop their personal skills to further their career. The Research Faculty offers plenty of opportunities for transdisciplinary exchange and collaboration across different disciplines in marine sciences. Postdoctoral researchers can make use of coaching and mentoring offers as well as a dedicated course and training programme.

As part of the joined MARUM and AWI project Kerguelen Plateau Drift Deposits: outstanding high-resolution chronicle of Cenozoic climatic and oceanographic changes in the southern Indian Ocean (BMBF) we look for a qualified postdoctoral researcher to work on material retrieved during the RV SONNE Expedition SO272.

Embedded in this multidisciplinary project the postdoctoral position is dedicated to conduct a combination of sedimentological, biostratigraphical and geochemical analyses and coordinate non-destructive core scanning of sediment cores. Major task will be compiling and synthesising the obtained complex multiple records, evaluating the potential for paleo-watermass reconstructions, and in collaboration with the AWI geophysics seismic team integrate geological and geophysical data to locate the best locations for an Integrated Ocean Drilling Program Drilling proposal with paleoceanographic targets.

The postdoc will work under the supervision of Thomas Westerhold (MARUM/University of Bremen) and in close collaboration with Gabriele Uenzelmann-Neben (AWI). Multidisciplinary project partners will support the postdoctoral researcher with their expertise.

Specific duties will include:

1. Sample sediment cores, coordinate sample distribution to other expertise, conduct carbonate content analysis, assess microfossil composition and preservation, stable carbon and oxygen isotope analysis on foraminifera, pilot work on Neodymium and Hafnium isotopes for water mass reconstruction
2. MSCL and XRF core scanning
3. Combining and illustrating the complex datasets using the Code for Ocean Drilling Data (CDDD)
4. Assist in seismic profile interpretation and location of future drill sites, contribute to writing a IODP drilling proposal for Kerguelen Plateau
5. Publication of results in peer-review international journal

Your profile:
• A PhD in a field of Marine Geology, Paleoceanography, Geochemistry
• Experience with sediment cores and ocean drilling samples will be beneficial.
• Experience with tracers for water mass reconstructions like Neodymium and Hafnium isotopes from marine sediment cores
• Experience with ocean drilling material to reconstruct paleoclimates, in particular the Eocene / Oligocene transition and Eocene time.
• Applicants should have excellent English language skills and enjoy working in an international and interdisciplinary team.
• Seagoing expedition experience, in particular the Kerguelen Plateau, is very welcome.

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 the same professional and personal qualifications will be given preference.

Applications including C.V., publication list, names and addresses of two referees, copies of degree certificates, and a statement of research interest should be submitted until 15th March 2020 as one pdf document under the reference number A377/19 to:

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D-28359 Bremen

or by Email to: twesterhold@marum.de