

GEOMAR Helmholtz Centre for Ocean Research Kiel is a foundation of public law jointly financed by the Federal Republic of Germany (90 %) and the state of Schleswig-Holstein (10 %) and is one of the internationally leading institutions in the field of marine sciences. Currently GEOMAR has an annual budget of approx. 75 million Euro and has approx. 1000 employees.

The research unit "Paleoceanography" of the research division "Ocean Circulation and Climate" is offering a

## **Doctoral Researcher position (m/f/d) AAIW Paleoceanography**

available from January 1<sup>st</sup> 2021.

### **Job Description**

The successful candidate will use the chemistry of marine sediments and micro-fossils to reconstruct Antarctic Intermediate Water (AAIW) properties in the south Atlantic and Pacific oceans during the Pleistocene. AAIW is an integral part of the global thermohaline circulation that redistributes heat and salt, balances the southward flow of North Atlantic Deep Water (NADW), supplies oxygen and CO<sub>2</sub> to the intermediate water depths of the oceans, and transfers nutrients from the Southern Ocean to the nutrient deprived tropics of the three main ocean basins. The project aims to use new records of AAIW properties such as water mass source, temperature and nutrient content to test hypotheses about the forcing of AAIW variability on orbital timescales and the role of AAIW in global climate changes during the Pleistocene.

### **Qualification**

This position requires a Master of Science degree in Geosciences, Environmental Sciences, or Oceanography and knowledge of paleoceanography, oceanography or a related field. The ability and willingness to travel are also a requirement because the successful candidate will participate in sampling of the sediment cores at international core repositories. Very good written and spoken English skills are essential. Experience in working in a laboratory environment and data analysis are desirable.

The position is funded for a period of three years. The salary depends on qualification and could be up to the class 13 TVöD-Bund of the German tariff for public employees. This is a part-time position according to 75 % of a full-time equivalent. The position cannot be split. Flexible working times are possible.

GEOMAR is an equal opportunity employer and encourages scientists with disabilities to apply. Qualified disabled applicants will receive preference in the application process.

Please mention the keyword in the subject line and send your application (cover letter, CV, abstract of Master thesis (in English language)), for this post not later than **November 9<sup>th</sup>, 2020** in a **single pdf-file** in English using the keyword "**AAIW Paleoceanography**" to the following address:

[bewerbung@geomar.de](mailto:bewerbung@geomar.de)

As soon as the selection procedure will be finished, all application papers will be destroyed according to data protection regulations.



Helmholtz-Zentrum für Ozeanforschung Kiel

Please do not contact us by phone about the present state of procedures. However, we will answer all your questions if you send us an e-mail to [bewerbung@geomar.de](mailto:bewerbung@geomar.de). In doing so, please refer to the keyword.

For further information regarding the project please contact Dr. Ed Hathorne ([ehathorne@geomar.de](mailto:ehathorne@geomar.de)) or Prof. Dr. Martin Frank ([mfrank@geomar.de](mailto:mfrank@geomar.de)).

GEOMAR is a member of the Helmholtz Association and the German Marine Research Consortium (KDM). For further information please visit [www.geomar.de](http://www.geomar.de) or [www.helmholtz.de](http://www.helmholtz.de).

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