

International Research Training Group ArcTrain: Processes and impacts of climate change in the North Atlantic Ocean and the Canadian Arctic

The DFG-funded International Research Training Group ArcTrain, a collaborative project between the University of Bremen, the Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research, and a consortium of eight Canadian universities invites applications for a

PhD position

in the area of sedimentology/micropalaeontology/paleoceanography in the framework of project HB-08: **North-Eastern Baffin Bay response to (early) Holocene warming.**

In the past, the development of the Greenland Ice Sheet (GIS) and the oceanic circulation in the southern Baffin Bay have been tightly coupled. For the northeastern Baffin Bay, in which 27% of the western GIS drain, such a connection is unknown due to the lack of data and samples. In order to model and predict the future responses of the GIS to changing climatic conditions, and hence, changing oceanographic conditions, it is important to better understand the nature of these ocean-cryosphere couplings and related GIS dynamics in the northeastern Baffin Bay. Newly collected sediment cores from this region now enable the study of this relationship in this critical area, where deglacial meltwater supply may have caused a delayed north-eastern Baffin Bay oceanic response to the Holocene insolation maximum. This project will use sedimentological, micropalaeontological and geochemical methods to assess the interaction between the advection of Atlantic waters and meltwater run-off from the GIS. We are searching for an enthusiastic and dynamic young researcher with interest in paleoceanography and paleoclimatology based on marine sedimentary archives. The PhD student will be part of the Marine Sedimentology group at MARUM, University of Bremen, working under the supervision of Prof. Dierk Hebbeln. A research stay is envisaged either at Dalhousie University, Halifax, or at the Université du Québec à Montréal.

Requirements:

- Completed MSc or equivalent degree in geosciences, physical geography, environmental sciences or related fields
- Knowledge of micropalaeontology, sedimentology and geochemistry
- Prior experience in marine science and oceanography is advantageous
- 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. It is funded by the German Science Foundation (DFG). The earliest starting date is October 1st, 2016. Salary corresponds to 2/3 TV-L E13.

Applicants should submit under the reference number **A86/16 (HB-8/2)** 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 electronically as a PDF file (maximum size 2 MB) to ArcTrain coordinator, Gabriella Wehr (gwehr@marum.de). The call is open until the position is filled. The review of applications will commence on June 1st 2016.

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.

Further enquiries can be addressed to

Prof. Dr. Dierk Hebbeln
MARUM, Universität Bremen
Leobener Straße
28359 Bremen
dhebbeln@marum.de

