



International Research Training Group ArcTrain “Processes and impacts of climate change in the North Atlantic Ocean and the Canadian Arctic” invites applications for new PhD positions!

ArcTrain is a collaborative project between the University of Bremen and the Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research in Germany, and a consortium of eight Canadian universities led by the Université du Québec à Montréal.

Funded by the German Research Foundation (DFG), ArcTrain follows the scientific objective of advancing the understanding of variability and feedbacks in Arctic and North Atlantic oceanic and cryospheric processes. Along this central research theme, ArcTrain provides structured training to PhD students in an interdisciplinary framework of **paleoclimatology**, **oceanography**, **environmental physics** and **climate science**.

ArcTrain offers a multifaceted qualification program, including research stays at partner institutions in Canada, land- and ship-based field courses, joint annual meetings and structured training workshops.

Further details on ArcTrain research and training are available at <http://www.marum.de/en/ArcTrain.html>.

For the third phase of ArcTrain, the University of Bremen and the Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research invite applications for:

12 PhD positions in the fields of:

- [HB-1](#) [Benchmarking sea ice remote sensing by data from the MOSAiC expedition](#)
- [HB-2](#) [Numerical modelling of land-fast sea ice distribution and season in the Arctic](#)
- [HB-3](#) [Drivers of Quaternary changes in organic carbon flux in Greenland marginal seas](#)
- [HB-4](#) [Modelling Greenland Ice Sheet collapse during MIS11](#)
- [HB-5](#) [Water mass ventilation and climate relevant circulation in the subpolar North Atlantic](#)
- [HB-6](#) [Impact of varying sea-ice cover on input of wind energy, internal waves, and mixing](#)
- [HB-7](#) [Impacts of cross-shelf oceanic exchange on melting of the Greenland Ice Sheet](#)
- [HB-8](#) [Understanding the Holocene sedimentary system in the western Baffin Bay](#)
- [HB-9](#) [Pelagic carbonate production and sedimentation in a changing Arctic](#)
- [HB-10](#) [Linking ocean warming and glacier mass change in the Canadian Arctic Archipelago](#)
- [HB-11](#) [Modelling the impact of Greenland meltwater and icebergs on North Atlantic](#)
- [HB-12](#) [Tracing meltwater controlled material flux from Greenland in its marginal seas](#)

Follow the links for detailed project descriptions. It is recommended to contact Prof. Michal Kucera (mkucera@marum.de) or the responsible investigators of the individual projects for further information. All positions are for a fixed term of 3 years. The latest starting date for each position is October 1st, 2019. Salary corresponds to a 2/3-position according to TV-L/TVöD E13.

The University of Bremen and the Alfred Wegener Institute are 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.

In case of equal personal aptitudes and qualification priority will be given to disabled persons.

Applications should be submitted with the reference number **A108/19** to

Prof. Dr. Michal Kucera, MARUM, Universität Bremen, Leobener Straße, 28359 Bremen, Germany

or electronically to (arctrain@marum.de) formatted as a single PDF document (max. 2 MB), stating the project(s) to which the application is directed. The application documents are specified in the project descriptions. The call is open until the positions are filled. The review of applications will commence on 24th May 2019.