

## Job offer

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### Master thesis: Nitrogen pathways in Antarctic sediments influenced by melting glacier

**Code:**

**Faculty:** Bachelor/Master Thesis

**Job type:** Full time

**Location:**

#### Nitrogen pathways in Antarctic sediments influenced by melting glacier

Background: The western Antarctic Peninsula is one of the fastest warming regions on Earth, leading inter alia to glacier retreat, increasing glacial discharge and ice-scouring. Glacial discharge and ice-scouring are known factors modifying sediment characteristics and the structure of coastal benthic communities. Results from a previous campaign show that these modifications influencing biogeochemical fluxes as well. The aim of the offered thesis is to reveal how nitrification, denitrification and anammox fluxes react on different intensities of glacial discharge and ice-scouring.

**Objectives**

- Calculation of nitrification, denitrification and anammox fluxes in Antarctic sediments
- Assessment of influence by glacial melting on mentioned fluxes

**Tasks:**

- Participation at a 12 weeks expedition to Dallmann-Laboratory/Carlini-Station (Potter Cove, Antarctic Peninsula), preliminary scheduled from mid of October till End of December 2016
- Realization and responsibility for measurements of nitrification, denitrification and anammox (bag incubation)
- Helping with different kind of diving tasks (deployment and recovery of in situ measuring devices, collecting water and sediment samples, photo surveys)

**Requirements:**

You need to hold a certificate as European scientific diver (Forschungstaucher) and you need to be available for training in the method in summer 2016 (max. one week).  
Students with Spanish language skills are preferred but it is not mandatory.

**Application deadline: 30.03.2016**

If you are interested or have any further questions please contact:

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#### General Informationen

The Alfred Wegener Institute pursues research in the polar regions and the oceans of mid and high latitudes. As of the 18 Centres of the Helmholtz Association it coordinates polar research in Germany and provides ships like the research icebreaker Polarstern and stations for the international scientific community.



## expedition tomorrow