Exciting Research Opportunities in Arctic & Marine Sciences

One PhD and eight Postdoctoral Fellow positions
Explore the opportunities and apply today!
Apply until mid-May 2025



Photo: Björn Eriksson

The Departments of Geological Sciences and Meteorology at Stockholm University, invite applications for postdoctoral and PhD positions in Arctic and marine sciences, funded by the Knut and Alice Wallenberg Foundation (KAW). These positions span geochemical oceanographic proxies, micropaleontology, ocean modelling, ice sheet modelling, and bathymetric mapping, including AI-driven approaches. Successful candidates will work in multidisciplinary teams to investigate ocean-cryosphere interactions around North Greenland, advancing our understanding of climate and environmental change in the high Arctic realm.

The positions are offered within the framework of two closely related research projects: Tracing How Atlantic Water Impacts North Greenland (THAWING) and Using AI to Predict the Retreat of Glaciers.

Project: Thawing
PhD student in North Greenland Marine Micropaleontology
at the Department of Geological Sciences
Application deadline: May 15, 2025.

This PhD project aims to reconstruct the evolution of ocean circulation, sea ice, and marine-terminating glaciers on the North Greenland margin, Arctic Ocean, over the past ~140,000 years, spanning the deglaciation and Holocene. To achieve this, the project will integrate quantitative analyses of calcareous microfossils – including benthic and planktonic foraminifera, and ostracods – with sedimentological, geophysical, and chronological constraints.

Read more:
https://su.varbi.com/en/what:job/jobID:811764

Contact: Matt O'Regan, *matt.oregan@geo.su.se* or Helen Coxall, *helen.coxall@geo.su.se*

Department of Geological Sciences
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Stockholm University



Photo: Emilie Knutsson

Project: Thawing
Postdoctoral Fellow in Arctic geochemical oceanographic proxies
at the Department of Geological Sciences
Application deadline: May 15, 2025.

This postdoctoral position aims to investigate the paleoceanography on the North Greenland margin during the Holocene and last deglaciation, spanning the past ~14,000 years. The objective is to reconstruct water mass properties – including temperature, meltwater, and nutrient characteristics – in relation to the evolving North Greenland ice margin, using inorganic geochemical proxies.

Read more: https://su.varbi.com/what:job/jobID:811409

Contact: Matt O'Regan, *matt.oregan@geo.su.se*

Project: Thawing
Postdoctoral Fellow in Ocean-Glacier Dynamics
at the Department of Meteorology
Application deadline: May 15, 2025.

This postdoctoral position aims to investigate ocean-glacier interactions using theoretical approaches and ocean-circulation modeling. The project will incorporate unique data collected during three icebreaker expeditions to North Greenland aboard IB *Oden* (Petermann 2015, Ryder 2019, GEOEO North of Greenland 2024), with a central focus on how Earth's rotation and fjord-glacier geometry limit the inflow of Atlantic Water and influence subsurface melt on marine-terminating glaciers.

Read more: https://su.varbi.com/what:job/jobID:809032

Contact: Johan Nilsson, *johan.nilsson@misu.su.se*

Project: Thawing
Postdoctoral Fellow in numerical ice-sheet modelling
at the Department of Geological Sciences
Application deadline: May 15, 2025.

This postdoctoral position aims to model the northern Greenland Ice Sheet margin and its outlet glaciers using the Ice Sheet and Sea-level System Model (ISSM). A particular focus is placed on glaciers with floating ice tongues that have been targeted during three icebreaker expeditions to North Greenland aboard IB *Oden* (Petermann 2015, Ryder 2019, GEOEO North of Greenland 2024).

Read more: https://su.varbi.com/what:job/jobID:811273

Contact: Nina Kirchner, *nina.kirchner@natgeo.su.se*

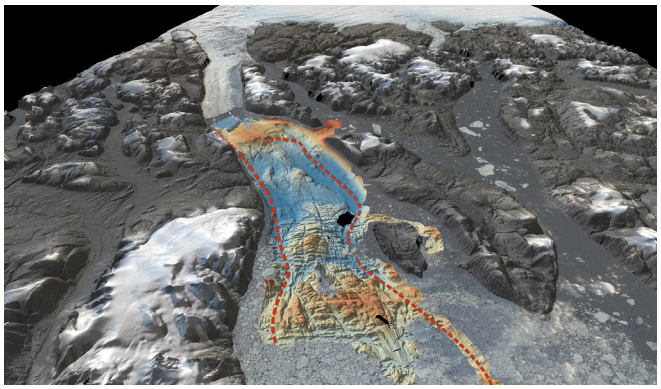


Illustration: Martin Jakobsson

Project: Thawing
Postdoctoral Fellow in Analyses of Marine geophysical mapping data
at the Department of Geological Sciences
Application deadline: May 15, 2025.

This postdoctoral position aims to analyze high-resolution sub-bottom profiles and multibeam bathymetry data collected during three icebreaker expeditions to North Greenland fjords and the Lincoln Sea aboard IB *Oden* (Petermann 2015, Ryder 2019, GEOEO North of Greenland 2024). The project is particularly suited for a scientist with expertise in marine geophysics and processing/interpreting marine geophysical mapping data.

Read more: https://su.varbi.com/what:job/jobID:810950

Contact: Martin Jakobsson, *martin.jakobsson@geo.su.se*

Project: Thawing
Postdoctoral Fellow in Modelling of the Arctic Ocean Circulation
at the Department of Geological Sciences
Application deadline: May 15, 2025.

This postdoctoral position aims to investigate Arctic-Atlantic Water dynamics through the Holocene and into future warming scenarios. The project will utilize high-resolution simulations from the EC-Earth model and ocean state estimates, applying particle-tracking analyses suitable for comparison with marine proxy records.

Read more: https://su.varbi.com/what:job/jobID:806695

Contact: Agatha de Boer, *agatha.deboer@geo.su.se*

Project: Thawing
Postdoctoral Fellow in Observational Oceanography with Machine Learning applications
at the Department of Geological Sciences
Application deadline: May 15, 2025.

This postdoctoral position aims to explore the potential of midwater acoustic measurements to capture key data on water column structure, temperature, salinity, and currents. It will draw on acoustic and oceanographic observations collected during three icebreaker expeditions to North Greenland and the Lincoln Sea aboard IB *Oden* (Petermann 2015, Ryder 2019, GEOEO North of Greenland 2024). Machine learning techniques will be used to enhance data interpretation through pattern recognition. The aim is to investigate modern Atlantic Water circulation within the North Greenland glacial fjords and the adjacent Lincoln Sea.

Read more: https://su.varbi.com/what:job/jobID:813440

Contact: Christian Stranne, *christian.stranne@geo.su.se*.



Photo: Martin Jakobsson



Photo: Martin Jakobsson

Project: Using AI to Predict the Retreat of Glaciers
Postdoctoral Fellow in AI-Based Analysis of Submarine Glacial Landforms
at the Department of Geological Sciences
Application deadline: May 15, 2025.

This postdoctoral position aims to develop and apply advanced machine learning techniques for the recognition and classification of submarine glacial landforms. The project will use high-resolution seafloor terrain models collected via multibeam sonar systems to develop computational tools for analyzing large geophysical datasets in environmental and geoscientific contexts.

Read more: https://su.varbi.com/what:job/jobID:788557

Contact: Martin Jakobsson, *martin.jakobsson@geo.su.se*

Project: Using AI to Predict the Retreat of Glaciers
Postdoctoral Fellow in Geomorphological Analyses of Submarine Landforms
at the Department of Geological Sciences
Application deadline: May 15, 2025.

This postdoctoral position aims to investigate submarine glacial landforms and their implications for glacial dynamics and ice-ocean interactions. The project will analyze high-resolution seafloor terrain models collected via multibeam sonar systems to interpret geomorphological features and better understand the processes shaping the seafloor in glaciated Arctic regions.

Read more: https://su.varbi.com/what:job/jobID:788367

Contact: Martin Jakobsson, *martin.jakobsson@geo.su.se*