



The Norwegian Polar Institute Section for Sea Ice

Jobbno ID: 169149
Deadline: 5/3/2019
Website: <http://www.npolar.no>
Scope: Fulltime
Duration: Fixed Term

Postdoctoral research fellow in sea ice physics (2.5 years)

The Norwegian Polar Institute (NPI)

in Tromsø, Norway invites applications for a postdoctoral research fellow position in sea ice physics in our Research Department, Section for Oceans and Sea Ice. The position has a duration of two and a half years with a possible extension for up to one and a half years, depending on funding.

The position is part of the project «Freshwater export in an era of Arctic Ocean freshening and sea ice decline (FreshARC)». The project is centred on long-term, near-continuous sea-ice thickness measurements from the Fram Strait Arctic Outflow Observatory (www.npolar.no/framstrait).

Work Content

The main aim of the project is to increase our understanding of variability and trends in the sea ice export from the Arctic Ocean through the Fram Strait. Near-continuous measurements from the ocean moorings in western Fram Strait as well as remote sensing products will be used to construct a consistent time series (1990-2020) of sea ice volume export. The objective of the project is to quantify the variability of the Arctic Ocean sea ice export, processes responsible for that variability on different time scales, and identifying changes or trends in the recent decades.

The postdoctoral fellow will analyze and integrate measurements from Upward Looking Sonar (ULS) and Acoustic Doppler Current Profilers (ADCP), update the existing time series to 2020, and compare in-situ sea ice drift with satellite products. Dominant modes of variability in the time series of sea ice thickness and volume will be analyzed and physical drivers both locally and upstream will be quantified by including atmospheric re-analysis and remote sensing products. The results are to be published in a timely fashion in international peer-reviewed journals. Participation on research cruises is expected.

The work will be carried out in close collaboration with other research scientists and PhD students.

Qualifications

The successful candidate must hold a completed PhD in sea ice physics, (geo) physics, applied mathematics or other closely related field. A documented completed degree is a prerequisite for employment.

We are looking for candidates with a strong background in sea ice research and time series analysis, and with good knowledge of Arctic sea ice processes and oceanography. Strong numerical and programming skills, experience with analysis of sea ice and/or ocean data and climate data (from in situ measurements and/or remote sensing) are required. Experience from field-/cruise work conducted on sea ice is an asset. The candidate needs to have published in scientific peer-reviewed journals, and the publications will be evaluated.

We seek applicants who are structured, solution-oriented, and have good cooperative skills, but who also have the ability to work independently. Good written and spoken communication skills in English are required.

General Information

The work place is Tromsø, Norway. The salary will commensurate with the qualifications of the successful candidate, according to the Norwegian state salary code 1352 postdoctoral research fellow. There will be a 2% deduction to the Norwegian Public Service Pension Fund.

Research expeditions can be long and enduring. Good mental and physical health is therefore required. Valid health certificates according to the NPI's guidelines are a prerequisite for participation on these expeditions.

The main objective of the appointment as a postdoctoral research fellow is to qualify for work in senior academic positions. In Norway no one may be appointed to more than one fixed-term period as a postdoctoral research fellow at the same institution. The maximum appointment-period for position as postdoctoral research fellow is four years.

The Norwegian State Administration strives to mirror the diversity of its population and thereby achieve a balanced mix of age, gender and ethnic backgrounds among its employees. All qualified candidates with different backgrounds are encouraged to apply. The Norwegian Polar Institute is an IW-enterprise and adjustments will be made to the workplace regarding health issues, if necessary.

Tromsø is a city of 70.000 residents situated in northern Norway at nearly 70°N. Tromsø is known as a good place to experience the midnight sun, polar night, varied outdoor activities and a lively cultural and entertainment environment. It is also a major, and expanding, center for

research, with numerous government and private research institutions and a major university. The NPI's Research Department is very diverse, both in scientific interests and in nationalities.

Applications

Further inquiries about the position may be directed to research scientist Laura de Steur, laura.de.steur@npolar.no, tel. +47 55 90 64 81, research scientist Dmitry Divine, dimitry.divine@npolar.no, tel. +47 969 47 100, or section leader Sebastian Gerland, sebastian.gerland@npolar.no, tel. +47 77 75 05 54.

The application deadline is 3 Mai 2019.

The application should include details of your relevant qualifications and experience, CV, list of publications, copies of your transcripts and names of at least three references. Please submit a complete application, including necessary documents/attachments, electronically via www.jobbnorge.no. Detail your research interests in the cover letter. Please, do not include copies of articles or other work in the application, but note that it may be requested later in the process.

All applications are handled in confidentially until the application deadline. Thereafter, a public list of applicants will be prepared. Applicants who wish to reserve their applications from the public list must give reasons for this in their applications. Information about an applicant can be made public even if the applicant has requested not be included from the public list of applicants, cf. Freedom of Information Act, Section 25, 2nd paragraph.

The Norwegian Polar Institute

carries out scientific research, mapping and environmental monitoring in the Arctic and the Antarctic. The Institute advises Norwegian authorities in strategic and thematic matters relating to the polar regions, represents Norway internationally on various occasions and is Norway's competent environmental authority

in Antarctica. Under the auspices of the Ministry of Climate and Environment, the Institute has a staff of approximately 160 located in Tromsø, Svalbard (Spitsbergen) and Antarctica. For more information, please visit www.npolar.no.

Additional information

Place of service:

Tromsø 9296 Tromsø (Tromsø - Romsa Municipality)