



The Norwegian Polar Institute Section for Sea Ice

Jobbnorge ID: 223468
Deadline: 4/20/2022
Website: <http://www.npolar.no>
Scope: Fulltime
Duration: Fixed Term

Postdoctoral Research Fellow in physical oceanography

Are you our new post doctor?

We have an open position as Postdoctoral Research Fellow in physical oceanography. The position is funded by the EU-project «Explaining and Predicting the Ocean Conveyor (EPOC)».

This is a fixed-termed position for 3,5 years and belongs to the institute's Arctic Ocean programme. This program consists of a wide range of projects that ensure interdisciplinary environmental management research. You will be employed at the Section for Oceans and Sea Ice in our Research Department. The section conducts research and monitoring in physical and chemical oceanography and sea ice physics in the polar regions. This contributes to quantification of key climate indicators, increased understanding of climate processes and improved environmental management in the Arctic and the Antarctic.

Your work place will be Tromsø, Norway. Some travel will be expected when participating on cruise and international workshops and meetings.

Work content

The main work task in this position is to quantify and analyse transports (volume, heat, freshwater and sea ice) into and out from the Arctic Ocean with an inverse model which incorporates mooring data from the «Arctic Gateways» (Fram Strait, Barents Sea Opening, Bering Strait and Davis Strait) collected between 2004 and 2020. Results are aimed to increase our understanding of how the Arctic Ocean exchange and overturning impacts the Atlantic Meridional Overturning Circulation (AMOC).

You will specifically:

- update and expand the inverse model with new observations.
- derive and analyse the time series from the inverse model to quantify the exchange of heat and freshwater between the Arctic and Atlantic Ocean between 2004 and 2020.
- investigate the transports and possible change in the overturning circulation in the Arctic Ocean.
- write scientific publications on the results.
- present the scientific results at international workshops and conferences.

Qualifications

You must hold a completed PhD in oceanography, meteorology, physics, geophysics or applied mathematics.

A Norwegian doctoral degree or equivalent doctoral degree from a foreign university is required. You are welcome to apply if you have not completed your doctoral dissertation yet, but you must then provide documentation that your dissertation has been submitted for evaluation before the position's closing date. An approved public defence of your doctoral thesis is a prerequisite for employment.

In addition to your PhD the position requires:

- experience with handling, processing and analysing large (geophysical) data sets, which may include model data sets.
- experience with publishing in peer-reviewed literature.
- solid knowledge of ocean and/or atmosphere dynamics or geophysics.
- experience with time series analysis.
- experience with programming in Matlab or Python.

The following are considered assets:

- knowledge of oceanographic processes and large-scale ocean and atmospheric circulation in the Polar regions.
- desire to expand your knowledge on inverse modeling.
- experience with ocean or climate models.
- experience with processing of data from oceanographic instruments.
- experience with oceanographic fieldwork.

We are looking for a person who is independent, solution-oriented and structured. You will collaborate with colleagues at the Norwegian Polar Institute and external researchers, both in Norway and abroad, so good collaborative skills and communications skills are essential.

Good language skills in English are required. Our working language is Norwegian, so knowledge of the Norwegian language will carry weight in the assessment. If you do not speak Norwegian you are expected to attend language courses within the first two years of your employment since communicating in Norwegian will be important for you, as well as for the institute. We pay for courses that are completed successfully.

We can offer

- Interesting and exciting work tasks in highly international research environment
- Salary according to the Norwegian State salary code 1352 postdoctoral research fellow, salary frame 24. From this, 2% is deducted to the State Pension Fund.
- Field pay according to national and local agreements
- Pension and insurance through the State Pension Fund

A diverse work force is important to us. If you are qualified for the position, you are welcome to apply regardless of your gender, age, cultural background, disabilities or gaps in your CV. The latter two may be used for registration purposes in connection with the government's policies.

Tromsø and the surrounding area have excellent conditions for experiencing the midnight sun, polar night, Northern lights, varied outdoor activities and a lively cultural and entertainment environment. Tromsø is situated at nearly 70°N with just about 75.000 residents. The city is an expanding centre for research, with numerous governmental and private research institutions and a major well-established university.

Applications

Further inquiries about the position may be directed to Research Scientist Dr. Laura de Steur, laura.de.steur@npolar.no, tel. +47 969 47 110, Research Scientist Dr. Randi Ingvaldsen, randi.ingvaldsen@hi.no, tel. +47 951 29 885, or Programme Leader Arild Sundfjord, arild.sundfjord@npolar.no, tel. +47 473 04 197.

The application deadline is 20 April 2022.

The application with attachments must be submitted electronically via www.jobbnorge.no. The application should include details of your relevant qualifications and experience, CV, publications list, copies of your transcripts and names of three references. Please, do not include copies of publications or other works in the application, but note that this may be requested later in the process.

To ensure a good recruitment process, we will carry out background checks on relevant candidates for the position. This helps ensure that we recruit the right expertise and contribute to a fair evaluation of the applicants. The background check often consists of verification of information provided in the application, CV, diploma, etc. through interviews, reference interviews, searches in open sources, etc.

All applications are handled in confidentiality 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 that they be excluded from the public list of applicants, cf. Freedom of Information Act, Section 25, 2nd paragraph.

The Norwegian Polar Institute

is a directorate under the auspices of the Ministry of Climate and Environment and has approximately 160 employees located in Tromsø, Svalbard and Antarctica. The institute is the main strategic adviser for the Norwegian State in polar issues,

represents Norway internationally with respect to polar sciences and management committees and processes, and is Norway's environmental authority in Antarctica. For more information visit www.npolar.no.

Additional information

Place of service:

Tromsø 9296 Tromsø (Tromsø - Romsa Municipality)