

PhD Position Available
Physical Oceanography/Hydro-Acoustics
University of Tromsø
Department of Geosciences
Tromsø, Norway

The Faculty of Science and Technology at the University of Tromsø (UiT) Arctic University of Norway announce a call for applications for a PhD position studying physical oceanography/hydro-acoustics. This four-year appointment will be located in Tromsø, Norway.

The successful candidate will participate in the faculty's organized research training and the PhD project shall be completed during the period of employment. The successful candidate will study short- and long-term natural evolution of gas releases of gas-hydrated seabed environments by investigating the interactions between ocean and seabed environments. Observations will include 3D numerical modeling of the oceanographic and thermogenic and biogenic gas expulsion system. Model predictions of long-term evolution of the environmental changes will be cross-checked against existing time records. Oceanographic, geochemical, and acoustic data sets from long-term (greater than two years) seafloor observatory stations have been already collected along the western Svalbard margin and northwestern Barents Sea. This project will start on a combination of geochemistry and physical oceanography data with further data collection on research cruises. The successful candidate will analyze and compare time series of hydro-acoustic (echosounder, multibeam, and hydrophone) and ocean chemistry data to estimate the

variability and quantity of biogenic and thermogenic methane releases from the seabed and identify earlier signs of these release and impacts.

The successful candidate will have a Master's degree in physical oceanography or related field. Experience in numerical modeling and use of hydro-acoustics, time series analyses, computing skills, and knowledge of Matlab programming will be an asset. This position will involve multiple research cruises to the Arctic Ocean and Barents Sea, where a variety of field sampling techniques and novel oceanographic underwater technologies will be learned.

This position is associated with the Norwegian Research Council Center of Excellence Center for Arctic Gas Hydrate, Climate, and Environment (CAGE) at the Department of Geosciences.

Application materials must include:

- A letter of application;
- A curriculum vitae containing a complete overview of education, supervised professional training, and professional work;
- Names and addresses of three references;
- Diploma and transcript from Bachelor's degree or equivalent;
- Diploma and transcript from Master's degree or equivalent;
- Diploma supplement for completed degrees;
- Documentation of English language proficiency; and
- List of works and descriptions of works.

The list of works must contain:

- Author(s) and the work's title;
- For articles: the journal's name, volume, first and last page numbers of article, and year of publication; and
- For publications: publisher, printer, year of publication, and number of pages.

Applicants may present a description outlining the academic basis of the PhD project.

Application deadline: 31 January 2017.

Applications must be submitted electronically via the online application form.

To apply, go to: <http://tinyurl.com/CAGE-Phys-Oc-Apply>.

For more information about CAGE, go to: <https://cage.uit.no/>.

For more information about UiT, go to: <https://en.uit.no/startside>.

For questions, contact:

Benedicte Ferre

Email: benedicte.ferre@uit.no

Phone: +47 77 64 66 07

Jurgen Mienert

Email: jurgen.mienert@uit.no

Phone: +47 77 64 44 46