



Norsk institutt for luftforskning
Norwegian Institute for Air Research

NILU – Norwegian Institute for Air Research (180 employees) aims to increase the understanding of processes and effects of climate change, of the composition of the atmosphere, of air quality and of hazardous substances. The institute holds a strong position both on the national and international level within its core fields of research.

PhD fellowship (3 Years)

Modelling and monitoring of organic contaminants in Arctic ecosystems under a changing climate

NILU is seeking a highly motivated PhD candidate to take part in a research project on combined impacts of multiple pressures on Arctic ecosystems. The Arctic region is currently subject to multiple pressures, including elevated exposures of organic contaminants in ecosystems and top-predators, as well as rapid changes in temperature and climate, such as loss of sea-ice. The large-scale and long-term cumulative effects of these and other pressures on the health of Arctic ecosystems is largely unknown.

The overall goal of this PhD project is to better understand and predict relationships between emissions of selected organic contaminants and levels and trends in Arctic environments and ecosystems experiencing changing climatic conditions, through statistical analysis of existing data, chemical analysis, and modelling studies.

The PhD project is part of a larger research project financed by the Research Council of Norway, and includes collaboration with the Norwegian Polar Institute, Norwegian Institute for Nature Research (NINA), Akvaplan-niva AS, universities in Toronto and Quebec (Canada) as well as research institutes in France and Australia.

The candidate will be located at the NILU offices at the Fram Centre in Tromsø. The position is available for a limited period of 3 years, affiliated to the Department for Environmental Chemistry (MILK) at NILU. The successful candidate is expected to start early fall 2019 and to carry out data analysis, chemical analysis, modelling, interpretation and publication of results in close collaboration with other project participants. Good communicative and collaborative skills across scientific disciplines and research institutes will be important.

The following requirements to the applicants are essential:

- Applicants must hold a Master's degree or equivalent in a relevant field (e.g. environmental chemistry, analytical chemistry, ecotoxicology).
- Applicants need to fulfill the requirements for admission to the PhD research training programme at the Faculty of Biosciences, Fisheries and Economics at UiT – The Arctic University of Norway (https://en.uit.no/om/enhet/artikkel?p_document_id=402397&p_dimension_id=88163&men=28713).
- Interest and experience with scientific programming / modelling and statistical analysis is a clear advantage.
- Interest and experience with relevant analytical work, ideally chemical analysis of organic contaminants in environmental samples, is an advantage.
- Interest in scientific, regulatory, and popular scientific dissemination activities, is an advantage.
- A strong motivation for a future scientific career is an advantage.
- A good command of both written and spoken English is required.

The successful candidate is expected to:

- Be involved in scientific modeling activities and interpretation of existing data.
- Perform chemical analysis at the NILU chemical laboratory.
- Work both independently as well as part of a team.
- Obtain a PhD after 3 years of research.

Further details about NILU can be found at www.nilu.no. Informal enquiries about the available position can be directed to senior scientist Ingerd S. Krogseth (isk@nilu.no) or senior scientist and section leader Dorte Herzke (dhe@nilu.no).

The application should include:

- *Application letter*

- CV (summarizing education, positions and academic work - scientific publications)
- Copies of educational certificates, transcript of records and letters of recommendation
- Names and contact details of minimum 2 references (relation to candidate, e-mail and telephone number)

Foreign applicants are advised to attach an explanation of their University's grading system. Please remember that all documents should be in English or a Scandinavian language. Applications with documents missing will not be considered further. Original documentation may be requested. Please note that application documents will not be returned with exception of original publications.

Applications should be sent through www.finn.no (ref. number 141137210) as soon as possible and no later than the 25th of March 2019.