



PhD fellow in dynamic modelling of food webs in the Barents Sea

About the position:

The research group on Ecosystem Processes at the Institute of Marine Research (IMR) in Norway and the Department of Arctic and Marine Biology at UiT, the Arctic University of Norway, have an immediate opening for a 3-year PhD position.

The work place will be at the Institute of Marine Research in Tromsø.

The research group on Ecosystem Processes has expertise in observation at sea, experimental and modelling studies to conduct research on marine trophic interactions, integrated ecosystem assessments, ecosystem modelling, cumulative impacts, vulnerability and risk assessments.

The Faculty of Biosciences, Fisheries and Economics (BFE) of UiT, the Arctic University of Norway, conducts teaching and research dissemination at a high national and international level within all relevant fields. Prioritized research areas are aquatic and terrestrial ecosystems, climate, life in the arctic, marine bioprospecting, fish health, seafood products, business and macroeconomics, resources and environment, markets and management of marine resources.

Area of Research:

The principal area of research for the current PhD position is to explore the plausible future dynamics of the Barents Sea ecosystem under climate and fishing pressures. The work will be conducted as part of the national research project 'The Nansen Legacy' (<https://arvenetternansen.com/>). The Nansen Legacy is a novel and holistic Arctic research project that provides integrated scientific knowledge required for sustainable management of the environment and marine resources in the Barents Sea and adjacent Arctic Basin.

The general approach is based on non-deterministic modelling principles, which provide a novel framework to explore the plausible responses of the Barents Sea food web to future climate and fisheries pressures. The non-deterministic network dynamics (NDND) model will be used to simulate and analyse patterns of food web dynamics under climate/fisheries scenarios.

The PhD will contribute to the development and application of robust tools to statistically evaluate model performances and explore plausible responses of the Barents Sea food web to climate/fisheries scenarios. The PhD work will be organised around three main axes: model developments, model statistical evaluation methods and forward simulations.

The PhD position is for a fixed term, with the objective of completion of research training to the level of a doctoral degree. Admission to the PhD programme is a condition for employment, and the program period starts on commencement of the position. The PhD project shall be completed during the period of employment. Information about the application process for admission to the PhD programme (https://en.uit.no/om/enhet/artikkel?p_document_id=402359&p_dimension_id=88163&men=28713)

and application form (https://en.uit.no/om/enhet/artikkel?p_document_id=402399&p_dimension_id=88163&men=28713) is available.

Qualification requirements:

The candidate must hold a master degree and must document a solid background in applied statistics, time series analysis and experience in programming in Matlab or R. In addition, the candidate should be familiar with several of the following topics: trophic and community ecology, climate-fisheries interactions, linear algebra, model sensitivity analysis, causal modelling, multivariate modelling, pattern oriented modelling and coupled physical-biological modelling.

The successful applicant should have good skills in Norwegian or other Scandinavian languages, or be willing to learn Norwegian within a reasonable time. The applicant must have a fluent command of English, both written and verbal. How to meet the language requirement (<http://www.samordnaoptak.no/info/english/language-requirements/>).

Admission to a PhD programme is a prerequisite for employment in a PhD position; cf. Section 6 of the Regulations for the degree of Philosophie Doctor (PhD) at the UiT The Arctic University of Norway. The plan for the PhD programme must be approved and the contract signed no later than six weeks, after the starting date. In connection with this, the person who is appointed can receive a period of up to two months in which to submit a draft of their project description/reworked project description and a proposal of courses for the instruction component. In the event that the PhD contract is not completed within the stipulated deadline, the employer may annul the contract; cf. Section 1-3(8) of the Regulations relating to conditions of employment for positions of Postdoctoral Fellows, PhD Candidate, Research Assistant (<https://lovdata.no/dokument/SF/forskrift/2006-01-31-102>) (only in Norwegian).

Working conditions:

The nominal length of the PhD programme is three years and the period of employment is three years.

Assessment:

The applicants will be assessed by an expert committee. During this assessment process, emphasis will be attached to the applicant's potential for research as shown by:

- Master's thesis or equivalent
- any other academic works

In addition, consideration may be given to work experience or other activities of significance for the implementation of the PhD studies. The applicants, who assessed as the best qualified, will be called to an interview.

The interview shall among other things aim to clarify the applicant's personal suitability for the position.

Applicants invited for interview should bring original certificates and diplomas.

The application:

Apply for the position in <http://www.jobbnorge.no/>

It is required that application documents (mentioned below) are uploaded in Jobbnorge before the submission deadline. Documents must be certified and translated into Scandinavian or English, when applicable.

Attachment:

- letter of application
- CV (containing a complete overview of education, supervised professional training and professional work)
- diploma and transcript from your Bachelor's degree or equivalent
- diploma and transcript from your Master's degree or equivalent
- diploma supplement for completed degrees
- documentation of English language proficiency
- reference letter and contact information
- List of works and description of these the list of works shall contain the following information:
 - author(s), the work's title
 - for articles: the journal's name and volume, the first and last page of the article, year of publication
 - for publications: publisher, printer, year of publication, number of pages

Works:

The applicant will attach the published or unpublished work he/she wish the Committee to take into consideration during the assessment process.

We offer:

- a positive, challenging and creative work environment.
- the opportunity to work in a national institute with a high level of international contact.
- flexible working hours, and a wide range of welfare services.

The Institute of Marine Research offers a governmentally regulated salary as 1017 PhD fellow and a pension scheme through the Norwegian Public Service Pension Funds, and other welfare benefits (see www.spk.no/en/ for more information).

Additional information:

For additional information, please contact Ulf Lindstrøm (ulf.lindstroem@hi.no, +47 55 90 65 66), Benjamin Planque (benjamin.planque@hi.no, +47 48 89 30 43) or Nigel Yoccoz (nigel.yoccoz@uit.no, +47 91 61 61 94)

IMR is an "Including Working Life Enterprise" concerned with diversity and therefore encourages all qualified candidates to apply

Please note that information about applicants may be made public even if an applicant has requested to be exempted from the list of applicants. Applicants will be notified about this in advance.

Please apply electronically using the link on this page, attaching a short letter of motivation, the names and contact details of at least two references, your CV with documentation to support your application (including a list of publications, transcripts or other documentation, and a selection of your most relevant publications).

About IMR:

The Institute of Marine Research (IMR) is the biggest research institute of its kind in Europe, with over 1,000 employees and a wide range of research facilities and laboratories of high international standard. Our main activities are research, advisory work and monitoring. The Institute owns and operates six research vessels.

Our main offices are in Bergen, and we have a department in Tromsø and research stations in Matre, Austevoll and Flødevigen. In January 2018, the IMR was merged with NIFES - The National Institute of Nutrition and Seafood Research. The new institute will be a leading supplier of knowledge relating to the sustainable management of the resources in our marine ecosystems and the whole food chain from the sea to the table.

Jobbnorge-ID: 150762, Søknadsfrist: Avsluttet