



UiT The Arctic University of Norway is a medium-sized, multi-campus research General strategies university. UiT contributes to knowledge-based development at the regional, national and international level. Our central location in the High North, our broad and diverse research and study portfolio, our geographical breadth and our interdisciplinary qualities make us uniquely suited to meet the challenges of the future.

Credibility, academic freedom, closeness, creativity and commitment shall be hallmarks of the relationship between our employees, between our employees and our students and between UiT and our partners.

PhD Candidate in the project “A sedimentological model for the Cenozoic evolution of the northern Mid-Norwegian-Lofoten-Vesterålen continental margin”

A PhD position is available at the Department of Geosciences. The appointment is for a period of 4 years. The nominal length of the PhD program is three years and the fourth year is distributed as 25 % of each year, and will consist of duty work for the department. This may include teaching (e.g. supervision and evaluation of student exercises) at various levels, as well as other duties relevant for the department. UiT funds the position.

Work place will be the [Department of Geosciences](#) at UiT The Arctic University of Norway in Tromsø.

The position's field of work

The objective of this PhD-project is to present a sedimentological model for the Cenozoic evolution of the northern Mid-Norwegian-Lofoten-Vesterålen continental margin based on integration of seismic data (2D and 3D) and exploration- and scientific boreholes. This includes reconstruction of the Cenozoic palaeoenvironmental evolution with respect to sedimentary processes, basin infilling and evolution of source areas, as well as quantification of the Cenozoic erosion and sedimentation rates from this margin.

The area of interest consist of a less studied geological segment of the Norwegian continental margin, linking the Mid-Norwegian margin and the SW Barents Sea. The study is motivated by knowledge gaps on; i) the sedimentological response (including basin development) of the early Cenozoic complex breakup of this rifted to sheared margin segment; and ii) the Cenozoic post-rift/sheared palaeoenvironmental evolution of the area, including source-to-sink estimates.

The project will utilize the 2D and 3D seismic data base from industry and the Norwegian Petroleum Directorate, data from key exploration boreholes north and south of the study area, as well as DSDP and ODP scientific wells on the Vøring Plateau. A detailed seismo-stratigraphic study, volume-attribute analysis and generation of isopach maps, together with a palaeogeographical reconstruction of the evolution of the Norwegian-Greenland Sea area will form the basis for the study. The deposition and transport of sediments within the source-to-sink system can be derived from this, and could potentially reveal the onset and timing of both canyon formation and large-scale ocean circulation within the basin, as well as the spatial and temporal influence and evolution of the different source areas. Moreover, these source areas and the depositional volumes will allow for a mass-balance study, i.e. a calculation of the sediment yield on the margin.

Associate Professor Tom Arne Rydningen will lead this project, and co-supervisor will be Professor Jan Sverre Laberg, both at the Department of Geosciences, UiT The Arctic University of Norway. The selected candidate can start his/her work immediately as data already exist from the study area. All the planned data analyses will be implemented at the Department of Geosciences. The results of this project are to be published in international peer-reviewed scientific journals and presented at national and international conferences/workshops, as well as at public events including “Forskningdagene” (The Norwegian Science Days). The candidate will be part of the PhD Trainee School in Arctic Marine Geology and Geophysics (AMGG) at the department, and will spend up to 6 months at a university and/or research institute abroad.

Further information about the position and UiT is available by contacting associate prof. Tom Arne Rydningen.

- Phone: +47 77646608 
- Email: tom.a.rydningen@uit.no

Qualification requirements

The candidate is required to have excellent knowledge about high-latitude glaciated continental margins and their paleoenvironments, and especially an in-depth understanding of the Cenozoic evolution of the Mid-Norwegian-Lofoten-Vesterålen margin is essential.

The candidate should have documented experience using seismic stratigraphic techniques, and he/she should in particular be acquainted with regional studies using 2D seismic data. Hands-on experience using state of the art software such as Petrel is essential.

The successful candidate is expected to participate in scientific cruises. Furthermore, the willingness for longer visits at partner institutions is expected.

To gain admission to the PhD programme, you must have a grade average of C or better. Further information about requirements for admission to PhD studies are available here: <https://uit.no/nt/phd>

Documented fluency in English is required, and working knowledge of Norwegian or a Scandinavian language is desirable. Applicants not being able to communicate in Norwegian are required to learn the language within a reasonable time.

The assessment will emphasize motivation and personal suitability for the position. You must be willing to engage in the ongoing development of your discipline and the university as a whole.

During this assessment process, emphasis will be put on your potential for research as shown by the Master's thesis, the project description and any other academic works. In addition, we may consider work experience, and in particular teaching experience will be regarded as positive.

Application

Your application must include:

- CV and application letter
- Diplomas and transcripts for Bachelor's and Master's degree (diploma supplement)
- Documentation on English language [proficiency](#)
- References
- Master thesis
- Project description

The application should include a description outlining the academic basis of the PhD project, as well as academic works produced by the candidate relevant for the assessment process.

Qualification with a master's degree required before commencement. Applicants who are near to completion of their master's degree, submit a draft version of the thesis. Final date of completion is 1st of March 2019.

All documentation has to be in English or a Scandinavian language. Applications must be submitted electronically through Jobbnorge.

Terms of employment

Remuneration of PhD positions are in salary code 1017 on the pay scale for Norwegian state employees. There is a 2% deduction for contribution to the Norwegian Public Service Pension Fund.

You have to be qualified for and participate in our PhD study program. As many as possible should have the opportunity to undertake organized research training. If you already hold a PhD or have equivalent competence, we will not appoint you to this position.

More information about moving to Norway: <http://uit.no/mobility>

General

We make the appointment in accordance with the regulations in force concerning State Employees and Civil Servants, and guidelines at UiT. At our website, you will find more [information for applicants](#).

UiT The Arctic University of Norway has HR policy objectives that emphasize diversity, and encourages all qualified applicants to apply regardless of their age, gender, functional ability and national or ethnic background. The university is an IW (Inclusive Workplace) enterprise, and we will emphasize making the necessary adaptations to the working conditions for employees with reduced functional ability.

We process personal data given in an application or CV in accordance with the Personal Data Act. You may request to not be registered on the public list of applicants, but the University may decide that your name will be made public. You will receive advance notification in the event of such publication.

Jobbnorge ID: 163763, Deadline: Closed