UiT Norges arktiske universitet
Institutt for fysikk og teknologi

Jobbnorge-ID: 139507
Søknadsfrist: Avsluttet
Nettside:
Omfang:
Varighet:

PhD Candidate in Oil Spill Remote Sensing at Centre for Integrated Remote Sensing and Forecasting for Arctic Operations

UiT The Arctic University of Norway, Faculty of Science and Technology, has a PhD student position vacant for applicants who wish to obtain the degree of Philosophiae Doctor (PhD). The appointment is for a period of three years.

The position is organised under the Department of Physics and Technology, and affiliated to Centre for Integrated Remote Sensing and Forecasting for Arctic Operations (CIRFA), a Centre for Research-based Innovation.

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 a PhD programme is a prerequisite for employment, and the programme period starts on commencement of the position. The PhD Candidate shall participate in the faculty's organized research training, and the PhD project shall be completed during the period of employment. Information about the application process for admission to the PhD programme, application form and regulations for the degree of Philosophiae Doctor (PhD) is available at our website.

Further information about the position and project details is available by contacting:

- Professor and Centre Leader Torbjørn Eltoft by email torbjorn.eltoft@uit.no or telephone +47 776 45 184
- Professor Camilla Brekke by email camilla.brekke@uit.no or telephone +47 776 46 297

The position's affiliation
The Department of Physics and Technology consists of five research groups: (1) Earth Observation, (2) Energy and Climate, (3) Machine Learning, (4) Space Physics, and (5) Ultrasound, Microwaves and Optics. The department provides education on the Bachelor, Master, and PhD levels, and comprises 19 permanent scientific positions and a technical/administrative staff of 10 persons.

The position's field of research
The PhD project will focus on Oil Spill Remote Sensing. Oil slicks on the ocean surface are seen as dark patches in a synthetic aperture radar (SAR) image. These dark patches are due to the reduced backscattering from slick-covered areas because of oil dampening the small waves responsible for the backscatter. Natural phenomena, known as look-alikes, may have a similar appearance as oil slicks in SAR images. These look-alikes include natural films, low wind areas, rain cells, shear zones, internal waves, and grease ice. The scope of the project is to investigate quantitative methods, including theoretical backscatter modelling, to characterize dark slicks observed in multi-polarization SAR scenes of the ocean surface, in order to develop reliable methods for discrimination between look-alikes and real mineral oil slicks.

Qualification requirements
We are seeking a candidate holding a Master's degree in physics or mathematics, with documented knowledge and interests in theoretical aspects of radar remote sensing, including radar scattering modelling, and experience in signal and image analysis of multi-polarization SAR data. A background in remote sensing for ocean applications is an advantage.

The successful applicant must fulfil the requirements for admission to the faculty's PhD programme, (Regulations for the degree of Philosophiae Doctor at UiT). In addition, he/she shall be able to document proficiency in English equivalent to Norwegian Higher Education Entrance Qualification, refer to the website about PhD regulations at UiT.

Emphasis shall also be attached to personal suitability.

Working conditions
The normal period of employment and the nominal length of the PhD programme is three years. A shorter period of appointment may be decided when the research fellow has already completed parts of his/her research training programme or when the appointment is based on a previous qualifying position (PhD Candidate, research assistant, or the like) in such a way that the total time used for research training amounts to three years.

Remuneration for the position of PhD Candidate is in accordance with the State salary scale code 1017. A compulsory contribution of 2 % to the Norwegian Public Service Pension Fund will be deducted. The starting gross salary is approximately 430 000 NOK per year. The university also provides assistance with housing for new employees.

The UiT campus is located near the center of Tromsø, a vibrant city located in Northern Norway with approximately 75 000 inhabitants. The location also offers ample opportunities for e.g., sighting aurora, hiking and skiing.

Assessment
An expert committee will assess the applicants. 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
- state of purpose (cover letter) highlighting the candidate's background and its relevance to the job announced
- skills in scientific writing in English

In addition, consideration may be given to work experience or other activities of significance for the implementation of the PhD studies. This includes experience with popularization, teaching or other types of dissemination of technical and scientific work. Information and material to be considered during the assessment must be submitted by the stipulated deadline.

The applicants who are 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 and motivation for the position.

Application
The application must be submitted electronically via the application form available on www.jobbnorge.no.

In addition, by the application deadline, the application must contain:

- 1-2 page letter of application (cover letter) highlighting the candidate's background and its relevance to the announced job
- CV (containing a complete overview of education, supervised professional training and professional work)
- Certified* copies of:
  - 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
  - references
- List of works and description of these (see below)

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

The works (published or unpublished) which the applicant wishes to be taken into consideration during the assessment process must be submitted.

All documentation that is to be evaluated must be certified and translated into English or a Scandinavian language.

Information and material to be considered during the assessment must be submitted by the specified deadline.

Applicants invited for an interview will be asked to bring original certificates and diplomas.

General information
Applicants shall also refer to the Supplementary regulations for appointment to postdoktor (Postdoctoral Research Fellow), stipendiat (PhD Candidate) and vitenskapelig assistent (Research Assistant) positions at UiT and to the Regulations concerning terms and conditions of employment for the posts of postdoktor (Postdoctoral Research Fellow), stipendiat (PhD Candidate), vitenskapelig assistent (Research Assistant) and spesialistkandidat (Resident).

See also information for applicants for positions at UiT.

Questions concerning the organisation of the working environment, such as the physical state of the place of employment, health service, possibility for flexible working hours, part time, etc. as well as questions about the PhD programme may be directed to the telephone reference in this announcement.

UiT has HR policy objectives that emphasize diversity, and encourages all qualified applicants to apply regardless of their gender, functional ability and national or ethnic background.

UiT is an IW (Inclusive Workplace) enterprise, and will emphasize making the necessary adaptations to the working conditions for employees with reduced functional ability.

Personal data given in an application or CV will be processed in accordance with the Act relating to the processing of personal data (the Personal Data Act). In accordance with Section 25 subsection 2 of the Freedom of Information Act, the applicant may request not to be registered on the public list of applicants. However, the University may nevertheless decide that the name of the applicant will be made public. The applicant will receive advance notification in the event of such publication.

We look forward to receiving your application!

UIT THE ARCTIC UNIVERSITY OF NORWAY
NO- 9037 TROMSØ

Tilleggsinformasjon

Arbeidssted: