

NTNU - knowledge for a better world

The Norwegian University of Science and Technology (NTNU) creates knowledge for a better world and solutions that can change everyday life.

Postdoctoral Research Fellow in "Environmental effects of seismic acquisition on marine mammals" (IE 142-2018)

The [Faculty of Information Technology and Electrical Engineering](#), at the Norwegian University of Science and Technology (NTNU) has a vacancy for a 100% position as a Postdoctoral Research fellow at the [Department of Electronic Systems \(IES\)](#). The position is affiliated with the Acoustics Group.

The position requires training and expertise in physics, mathematics and acoustics or seismic.

The Postdoctoral position has a duration of two years.

Information about the department

Currently IES has approximately 165 full-time employees spread across 45 professors/ass professors, 70 PhD, 25 research/Post.Doc and 25 engineering/administration. IES has the principal responsibility for education and research in electronics at NTNU. IES research portfolio comprises the areas of statistical signal processing, wireless communication, marine acoustics/sub-sea communications, multimedia and speech technology, micro- and nano-technology, sensors, and medical technology.

The acoustics group

The acoustics group (<https://www.ntnu.edu/ies/acoustics-group>) studies the generation, propagation and reception of sound waves, as well as transducers and related signal processing, in a wide range of scenarios: sound for the communication between humans (speech and music); the influence of sound (noise) on humans and animals; and technical uses such as for remote sensing, designing materials and devices for noise abatement, biodiversity assessment and underwater communication networks.

This postdoctoral fellowship is financed by ARCEX. The Research Centre for Arctic Petroleum Exploration, ARCEX, is a research collaboration between academia and industry with support from the Research Council and Norwegian authorities. Through a common effort, ARCEX contributes to the understanding of the geology and resource potential of the high north. ARCEX develops new geophysical exploration techniques suitable for the Arctic and new models for environmental risk connected to operations in the north. Education and training is an integrated part of ARCEX. ARCEX is hosted by UiT The Arctic University of Norway in Tromsø.

The post doc position will focus on environmental effects of seismic acquisition on marine mammals, and especially whales. The impact of high frequency sound generation by conventional seismic air gun arrays and how such frequencies can be attenuated is a key topic for the post doc position. Analysis and acquisition of acoustic signals generated by marine mammals are crucial elements of the research the post doctoral fellow will be involved in. Furthermore, to develop new and efficient methods to detect marine mammals during seismic acquisition will be in focus. Other aspects are related to design or modification of marine seismic sources to reduce or remove unwanted environmental effects caused by seismic acquisition.

Living in Trondheim

Trondheim is situated by the Trondheim fjord in the middle of Norway. It is the third largest city in Norway but still small by European standards. It is known for having the atmosphere both of a small and a large city and is famous for its student friendly environment.

In all seasons Trondheim is an ideal place for those interested in outdoor life, whether your interest is by the sea or in the fjords, in the forest or in the high mountains. Trondheim is also a nice place to raise children. So, why not grasp this opportunity to boost the rest of your personal and professional life with some years in Trondheim?

For more information regarding moving to Trondheim, Norway and working at NTNU, please see: <http://www.ntnu.edu/nirs>

Requirements of the applicant:

- a PhD degree in acoustics, geophysics or physics
- expertise in signal analysis, underwater acoustics and/or cavitation phenomena
- proficiency in oral and written English

Emphasis will also be placed on:

- experience with transdisciplinary work

- excellent communication skills, both oral and written
- willingness to learn Norwegian

The position offers challenging and varied tasks in a versatile and pleasant environment that is characterized by active, committed and skilled employees. NTNU is an equal opportunity employer and welcomes applicants from both EU/EEA and non-EU countries. The university is strongly committed to diversity within its community and welcomes applications from members of ethnic minorities.

The period of employment for the position as a Postdoc Research Fellow is 2 years. The position has the objective of qualifying for higher academic positions.

Depending on qualifications and academic background, Postdoctoral Fellows (1352) will be remunerated at a minimum of NOK 515 200 per year before tax. Normal wage level is NOK 515 200 from which 2% is deducted for the Norwegian Public Service Pension Fund.

The appointment will be made in accordance with current regulations and supplementary rules for employment as Postdoctoral fellow at universities and university colleges.

A yearly amount for operating costs will be added.

The appointment will be made in accordance with current regulations and supplementary rules with guidelines for employment as post doctoral appointments at universities and university colleges.

How to apply:

- Applicants are asked to apply via this page. The application should contain the following attachments:
- Applicants' CV (including list of publications, relevant former positions and references) and copy of relevant transcripts and diplomas.
- Short statement on the applicant's personal qualifications and motivation for the position.
- Short statement from a former supervisor/tutor/teacher.
- Contact information for two references.
- Other relevant attachments.

Candidates from universities outside Norway are kindly requested to send a Diploma Supplement or a similar document, which describes in detail the study and grade system and the rights for further studies associated with the obtained degree:

http://ec.europa.eu/education/tools/diploma-supplement_en.htm

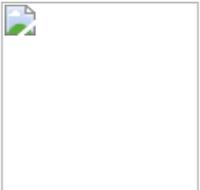
Deadline for applications: 21. August 2018.

Chosen applicants will be invited to undergo an interview.

For further information about the position, please contact Professor Martin Landrø, telephone +47 73594973  or

+47 91897550 , email: martin.landro@ntnu.no.

For information concerning the application process, please contact the Head of Office Randi Hostad, telephone +47 73594402 

, email: randi.hostad@iet.ntnu.no

Please note that under the Norwegian Civil Service Act, information about applicants may be made public even though the applicant has requested not to be included on the list of applicants.

Jobbnorge-ID: 155132, Søknadsfrist: Avsluttet