**Jobbnorge ID:** 202735
**Deadline:** 4/26/2021
**Website:** http://www.hi.no
**Scope:** Fulltime
**Duration:** Permanent

## About the Institute of Marine Research and the research group Ecosystem Acoustics

The Institute of Marine Research (IMR) is one of the largest research institutes of its kind in Europe, with approximately 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 IMR owns and operates seven research vessels. Our main offices are in Bergen, and we have a department in Tromsø, and research stations in Matre, Austevoll and Flødevigen.

The IMR's aim is to be a leading supplier of knowledge relating to the sustainable management of the resources in our marine ecosystems, both nationally and internationally, and the whole food chain from the sea to the table. This includes the marine environment, fish nutrition, and safe and nutritious sea food.

The successful candidate will be part of IMR's Ecosystem Acoustics Research Group and will be based in Bergen. For the time being the candidate will be involved in existing projects, such as SFI CRIMAC, but will be expected to actively apply for research funds for future projects.

# Research scientist within machine learning methods

## About the position

The Institute of Marine Research (IMR) in Norway has a vacancy for a permanent research position on machine learning methods. The position is attached to the research group Ecosystem Acoustics and will be part of a team working on methods for analyzing large data sets using modern techniques from machine learning and artificial intelligence. IMR is rapidly extending its data collection capacities with autonomous underwater and surface vessels and new imaging technologies and acoustic platforms. Efficient use of the growing data stream is increasingly important to the IMR primary missions of developing our understanding of the marine environment and producing the highest quality resource management advice. In addition to analysis of acoustics data, the candidate will work on large-scale data from many fields and in close collaboration with other research groups and external partners. An important challenge is to develop unsupervised or semi-supervised methods for cases where the training data is limited or has variable quality. The workplace will be at IMR in Bergen, Norway.

## Qualifications

**The successful candidate must have the following qualifications:**

1. PhD in a relevant field, e.g. informatics, physics, applied mathematics, or statistics
2. Knowledge and practical experience in machine learning, and familiarity with relevant software frameworks (e.g. TensorFlow, Keras, or PyTorch, Theano)
3. Strong data science and programming skills
4. Strong quantitative skills
5. Excellent skills in English, both written and oral

**In addition, the following qualifications are desired and will be given weight:**

6. Demonstrated ability to work independently as a researcher
7. A strong publication track record with independent publications
8. Experience of working with large data sets
9. Proficiency in Python, R, and/or MatLab
10. Experience with unsupervised and semi-supervised machine learning methods
11. Ability to work in a multi-disciplinary team and to work independently towards objectives
12. Ability to work efficiently, be goal-oriented and perform and report project activities on schedule
13. Experience in working with image data analysis
14. Experience in working with acoustic data analysis

15. Knowledge in marine ecosystems, ecology, oceanography, or related sciences

16. The working language at IMR is Norwegian. A working knowledge of the Norwegian language will be advantageous, and language training will be offered if necessary

17. Ability to get security clearance is positive

## We offer:

- A challenging, creative, and international working environment within one of Europes leading marine research institutions that is at the forefront regarding the use of marine observations for the investigation of climate effects on marine ecosystems.
- Exciting projects in a strong scientific environment.
- Flexible working hours.
- Public pension scheme in Statens pensjonskasse.

The position as 1109/1110 scientist is paid in accordance with the civil service pay scale.

## Inclusive workplace

The Institute of Marine Research value diversity. Therefore, we welcome all qualified candidates to apply for the position, regardless of age, gender, functional ability, nationality or ethnical background. We are an Inclusive Working Life Enterprise, and we aim to facilitate for applicants with disabilities.

Upon receiving applications from candidates with reduced abilities, gaps in CV or immigrant background, we will invite at least one qualified candidate from each category to an interview. In order to be considered for affirmative action, certain requirements should be met. Please read more here

If you wish to be considered for affirmative action, please specify when submitting your application.

## Additional information

For more information, please visit our website or contact Ketil Malde (email ketil.malde@hi.no, or phone +47 98 69 18 34), Nils Olav Handegard (email nilsolav@hi.no, or phone +47 95 85 40 57) or Rolf Korneliussen (email rolf.korneliussen@hi.no or mobile + 47 48 89 73 88).

Applications should be submitted electronically via the link on this page and should be accompanied by a cover letter summarizing relevant skills (in response to the qualifications listed in the position description) and your reasons for applying for the position, a complete CV, publication list, copies of maximum 5 peer reviewed publications, three references and transcripts of academic degrees.

Application deadline 2021.04.26 - April 26

## Havforskingsinstituttet is celebrating its 120 years anniversary!

Here you can get insight into the work of IMR during the past 120 years.

Video: https://www.youtube.com/watch?v=pYsEcYiDiJ8

## Additional information

### Place of service:

Postboks 1870, Nordnes 5817 Bergen (Bergen Municipality)