



**Jobbnorge ID:** 179110

**Deadline:** 1/12/2020

**Website:** <https://www.uib.no/om/84775/ledige-stillinger-ved-uib>

**Scope:** Fulltime

**Duration:** Fixed Term

## PhD position in machine learning

### UiB - Knowledge that shapes society

Through robust and close interaction with the world around us - globally, nationally and locally - we shall be instrumental in building a society based on knowledge, skills and attitudes.

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Video: <https://www.youtube.com/watch?v=JRdMR-PhbBQ&t=4s>

### PhD position in machine learning

There is a vacancy for a PhD position in machine learning at the [Department of Informatics](#). The position is for a fixed-term period of 3 years with the possibility of a 4th year. A PhD degree in computer science is highly requested by corporate organizations and academia.

#### About the Department

The Department of informatics has seven research groups that deliver research and education at a high international level in algorithms, bioinformatics, information security, machine learning, optimization, programming theory, and visualization. All the groups are successfully co-funded by research grants, among others by the European Research Council (ERC). The department offers state of art education at Bachelor, Master and PhD levels. Due to central role informatics plays in society, the department is in rapid growth, in the number of students, research directions, and employees. We have today about 700 students, more than 50 PhD candidates, and 150 employees, among which 35 are faculty. Machine learning is a special focus area of our department and we are in the process of strengthening the machine learning group. This position is part of this ongoing expansion. The University of Bergen recently founded the Center for Data Science ([CEDAS](#)) as an important extension of research and education activities within data science.

#### About the project/work tasks:

All employees are expected to contribute to excellence through high quality research and teaching. The successful candidate will work towards receiving a PhD degree in machine learning within the end of the employment period. The PhD student will be associated with CEDAS. The thesis topic will be in one of the areas of expertise of the faculty members of the machine learning group. Currently, this includes topological data analysis, probabilistic graphical models and Bayesian inference.

#### Qualifications and personal qualities:

- Applicants must hold a master's degree or the equivalent in Computer Science, Informatics, Mathematics, or a related field. Master students can apply provided they complete their final master exam before 31.07.2020. It is a condition of employment that the master's degree has been awarded.
- A strong mathematical background and good programming skills are requirements.
- Experience in machine learning is an advantage.
- Experience in areas of expertise of the machine learning group, including topological data analysis, probabilistic graphical models or Bayesian inference are an advantage.
- Applicants must be able to work independently and in a structured manner, and demonstrate good collaborative skills.
- Applicants must be proficient in both written and oral English.
- Personal and relational qualities will be emphasized. Ambitions and potential will also count when evaluating the candidates.

#### About the PhD position:

##### About the PhD position

The fellowship will be for a period of 3 years, with the possibility for a 4th year, consisting of 25 % compulsory work (e.g. teaching responsibilities at the department) distributed across the employment period. The 4th year is contingent on the qualifications of the candidate

and the teaching needs of the department, and will be decided upon appointment. The employment period may be reduced if you have previously been employed in a qualifying post (e.g. research fellow, research assistant).

### About the research training

As a PhD candidate, you must participate in an approved educational programme for a PhD degree within a period of 3 years. A final plan for the implementation of the research training must be approved by the faculty within two months after you have commenced in the position. It is a condition that you satisfy the enrolment requirements for the PhD programme at the University of Bergen.

### We can offer:

- Exciting development opportunities as part of your role in a strong professional environment
- Salary at pay grade 54 (Code 1017/Pay range 20, alternative 10) in the state salary scale. This constitutes a gross annual salary of NOK 479 600,-. Further promotions are made according to length of service in the position.
- Enrolment in the Norwegian Public Service Pension Fund
- Good [welfare benefits](#)

### Your application must include:

- A brief account of the applicant's research interests and motivation for applying for the position
- The names and contact information for two reference persons. One of these must be the main advisor for the master's thesis or equivalent thesis
- CV
- Transcripts and diplomas showing completion of the bachelor's and master's degrees, or official confirmation that the master's degree is expected to be completed by July 31st 2020
- Relevant certificates/references
- Approved documentation of proficiency in English (if required, cf. [English language requirements for PhD admission](#))
- A list of any works of a scientific nature (publication list)
- Any publications in your name

The application and appendices with certified translations into English or a Scandinavian language must be uploaded at Jobbnorge by 12.01.2020.

### General information:

Detailed information about the position can be obtained by contacting:

[Associate Professor Pekka Parviainen](#), Department of Informatics.

For HR related matters, please contact [Lene Sørheim](#)

The state labour force shall reflect the diversity of Norwegian society to the greatest extent possible. People with immigrant backgrounds and people with disabilities are encouraged to apply for the position.

We encourage women to apply. If multiple applicants have approximately equivalent qualifications, the rules pertaining to moderate gender quotas shall apply.

The University of Bergen applies the principle of public access to information when recruiting staff for academic positions.

Information about applicants may be made public even if the applicant has asked not to be named on the list of persons who have applied. The applicant must be notified if the request to be omitted is not met.

The successful applicant must comply with the guidelines that apply to the position at all times.

For further information about the recruitment process, click [here](#).

### Life as a PhD candidate at UiB

Marion Claireaux tells about life and work as a PhD candidate at UiB.

Video: <https://www.youtube.com/watch?v=nrt6VxMeJ4&index=2&list=PLf8ZIYfAO0qjhROTj6SthDbSScg0lSO6G>

## About The University of Bergen

The University of Bergen is a renowned educational and research institution, organised into seven faculties and approximately 54 institutes and academic centres. Campus is located in the centre of Bergen with university areas at Nygårdshøyden, Haukeland, Marineholmen, Møllendalsveien and Årstad.

There are seven departments and several centres at Faculty of Mathematics and Natural Sciences. [Read more about the faculty](#) and [departments](#).

### Additional information

#### Place of service:

