



UNIVERSITETET I BERGEN

**University of
Bergen**
Department of
Mathematics

Jobbnorge-ID: 128998

Søknadsfrist: Closed

Nettside:

Omfang:

Varighet:

PhD position in applied mathematics/statistics

[The Department of Mathematics](#) has a vacancy for a research fellow (PhD position) within applied and computational mathematics/statistics. The position is for a period of 3 years and is part of the project "Bayesian Monitoring Design (BayMoDe)" financed through the CLIMIT program within the Research Council of Norway.

About the project/work tasks

The objective in BayMoDe is to implement Bayesian methods into an existing tool that design marine monitoring programs with the purpose of detecting leaks of geological stored CO₂. Based on environmental statistics and predictions on seep characteristics the tool optimizes layout of sensors.

The project is collaboration between the statistics and hydrodynamics groups at Department of Mathematics, Uni Research, Plymouth Marine Laboratory and Heriot-Watt University in Edinburgh. It will work closely with the Horizon2020 funded project "STEMM-CCS" , <http://www.stemm-ccs.eu>.

The research fellow will be responsible for implementing Bayesian statistics into the design tool. Focus will be on the Goldeneye area in the British sector of the North Sea.

Qualifications and personal qualities:

- The applicant must hold a master's degree in mathematics, mechanics, statistics or computer science. Candidates with strong background in physics or oceanography may also be considered.
- Candidates must satisfy the requirement for entering [the ph.d. program at UiB](#) .
- Candidates are invited to apply if they plan to complete their final master's exam by **1 December 2016**. Employment will then be postponed until the master's degree is obtained.
- Strong expertise in probability and statistical methods. Experience with machine learning techniques will be an advantage.
- Experience from mathematical modelling, especially hydrodynamics/ocean modelling, and/or programming will be an advantage.
- Work independently and in a structured manner, and have the ability to cooperate with others.
- Proficiency in both written and oral English.

About the PhD position

The fellowship position is for a fixed term of 3 years. The employment period may be reduced if you have previously been employed in a recruitment position.

About the research training

As a research fellow you must take part in an approved study program leading to a PhD degree to be completed within a time period of 3 years. It is therefore a requirement that you meet the criteria for admission to the PhD study program at the University of Bergen.

A final plan for the implementation of the research training must be approved by the faculty within three months after you have commenced in the position.

We can offer:

- A good and professionally challenging working environment.
- Salary at pay grade 50 (code 1017/pay range 20.8) in the state salary scale. Further promotions are made according to qualifications and length of service in the position.
- Enrolment in the Norwegian Public Service Pension Fund.
- An inclusive workplace (IA enterprise).
- 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 may 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

- If you have not yet completed your master`s degree, please submit a statement from your institution confirming the expected date of the award of your master`s degree. Your master`s degree must be documented with transcripts and/or diploma, alternatively a confirmation from your institution on completed degree and your grade, by **1 December 2016**.
- Relevant certificates/references.
- 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.

Closing date for applications: 1 October 2016

General information:

Detailed information about the position can be obtained by contacting: Professor Guttorm Alendal, Department of Mathematics, +47 55584044, Guttorm.Alendal@uib.no.

The state labour force shall reflect the diversity of Norwegian society to the greatest extent possible. Age and gender balance among employees is therefore a goal. It is also a goal to recruit people with immigrant backgrounds. 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.

Tilleggsinformasjon

Arbeidssted: