



Jobbnorge ID: 278155

Deadline: 4/20/2025

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

Scope: Fulltime

Duration: Permanent

PhD Research Fellow in applied and computational mathematics

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=oYaThmlq6Kg>

PhD position

The [Department of Mathematics](#) at the University of Bergen has a vacancy for a PhD Research Fellow in applied and computational mathematics. The position is for a fixed-term period of 3 years with the possibility of a 4th year with career-promoting work (e.g. teaching duties at the Department). The position is part of the Norwegian Research Council funded [Center for Sustainable Subsurface Resources](#) (CSSR).

About the project/work tasks:

- The successful candidate will contribute to the development and analysis of versatile analysis tools for data from experimental research on porous media.
- The position will be linked to the Department of Mathematics and will work closely with the experimental activities within CSSR at the Department of Physics and Technology.
- Specifically, it is envisioned to develop and analyze new mathematical and numerical methods for processing 4D spatial and temporal data.
- Conceptually, this includes data from a single experiment (regularization), across two experiments (registration), and for analyzing large datasets (statistical analysis and machine learning). This development will build on a theoretical foundation from numerical and functional analysis, as well as image processing.

About CSSR and the Department of Mathematics at UiB

- CSSR is a national research center dedicated to providing new subsurface knowledge and digital solutions to drastically reduce Norway's offshore emissions.
- The center is an interdisciplinary collaboration between the University of Bergen, represented by the Department of Mathematics and the Department of Physics and Technology, and NORCE Norwegian Research Center.
- This PhD position is hosted by the [Porous Media Group](#) in the Department of Mathematics at the University of Bergen. The porous media group consists of five permanent faculty, three permanent researchers, and typically has about 10 PhD students.
- The group's primary area of research relates to numerical and computational methods for processes associated with porous materials, with a particular emphasis on geological applications.

This is the right position if you are a highly motivated candidate, looking to join an interdisciplinary research environment where you can further the state of the art in applied mathematics and data analysis.

Qualifications and personal qualities:

- Applicants must hold a master's degree or equivalent education in applied and computational mathematics, scientific computing, computational physics or computational geoscience. Master students can apply provided they complete their final master exam before 01.07.2025. It is a condition of employment that the master's degree has been awarded.
- Strong expertise in applied and computational mathematics, and related software development is a requirement.
- Experience with partial differential equations and image processing is an advantage.
- Experience with statistics and big data is 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.
- In the assessment of relevant candidates, a holistic assessment of both quality and breadth in the candidates' background will be carried out. Personal and relational qualities will be emphasized.

Special requirements for the position

The University of Bergen is subjected to the regulation for export control system. The regulation will be applied in the processing of the applications.

About the PhD position (applies to university PhD positions):

The fellowship will be for a period of 3 years, with the possibility for a 4th year, consisting of 25 % career-promoting work (e.g. teaching responsibilities at the department) distributed over 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 by the head of department 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 Research Fellow, you must participate in an approved educational programme for a PhD degree within a period of 3 years. The deadline for applying for admission to the PhD programme at The Faculty of Science and Technology is 2 months after you start your position or after the start of the research project that will lead to the PhD degree. It is a condition that you satisfy [the enrolment requirements for the PhD programme](#) at the University of Bergen.

We can offer:

- a good and professionally stimulating working environment
- salary as PhD research fellow (code 1017) in the state salary scale. This constitutes a gross annual salary of NOK 540 500. Further increases in salary 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 referees. One of these should 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 award of your master's degree. Your master's degree must be documented with transcripts and/or diploma before starting in the position.
- A pdf copy of your MSc thesis, if completed, or a current draft version of your master's thesis
- 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.

General information:

For further details about the position, please contact Professor Jan Martin Nordbotten, Department of Mathematics, University of Bergen, e-mail: jan.nordbotten@uib.no, telephone number: +47 909 65 990.

For HR related matters, please contact HR Adviser Magnus Skogstad, University of Bergen, e-mail: magnus.skogstad@uib.no

Diversity is a strength that enables us to solve our tasks even better. UiB therefore needs qualified employees regardless of gender, ethnicity, religion, worldview, disability, sexual orientation, gender identity, gender expression, and age.

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.

We encourage applicants with disabilities, immigrant backgrounds, or gaps in their CV to apply. By indicating such circumstances in your application, you may receive favourable consideration. We ensure that at least one qualified applicant from each of these groups is invited for an interview as part of our commitment to inclusivity and equal opportunity. 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=PLf8ZIYfAO0qjhROTj6SthDbSScG0ISO6G>

About UiB

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 Science and Technology. [Read more about the faculty](#) and [departments](#).

Additional information

Contact person:

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