



UNIVERSITETET I BERGEN

**University of
Bergen**
Department of
Physics and
Technology

Jobbnorge ID: 209312

Deadline: 8/20/2021

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

Scope: Fulltime

Duration: Fixed Term

PhD Research Fellow in Reservoir Physics

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 Research Fellow in Reservoir Physics

There is a vacancy for a PhD Research Fellow in reservoir physics at the [Department of Physics and Technology](#). The duration of the PhD Research Fellow is 4 years, of which 25 per cent of the time each year comprises required duties associated with research, teaching and dissemination of results. The position is financed by the University of Bergen.

About the project/work tasks:

The project is called "Non-uniqueness of multiphase flow in porous media" and targets physical variability in repeated carbon dioxide (CO₂) injection experiments using the same geological geometry. In collaboration with Universität Stuttgart, stochastic invasion percolation models will be matched with non-unique, multiphase flow patterns observed in real-time. The proposed project has a unique possibility to explore the predictable capabilities of models in the interface between data-driven modelling, incomplete physical characterizations, and stochastic processes.

Qualifications and personal qualities:

- Applicants must hold a master's degree or equivalent education in flow in porous media, or must have submitted his/her master's thesis for assessment prior to the application deadline. It is a condition of employment that the master's degree has been awarded.
- Experience from experimental methods related to displacement processes in porous media is a requirement.
- 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.
- Applicants must have a good command of the Norwegian language.

Personal and relational qualities will be emphasized. Ambitions and potential will also count when evaluating the candidates.

Special requirements for the position

- Applicants must have experience from experimental research on CO₂ injection in porous media
- Applicants must have experience from visualization in porous media, including image processing and analysis of dynamic displacement processes.
- Applicants must be able to work independently in the laboratory, and document experience from building their own experimental setups.
- Applicants should have experience from Matlab or similar tools.
- It is an advantage that applicants have knowledge of statistics and the ability for mathematical analysis.

About the PhD position:

About the PhD Research Fellow

The duration of the PhD Research Fellow is 4 years, of which 25 per cent of the time each year comprises required duties associated with research, teaching and dissemination of results.

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 Mathematics and Natural Sciences 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 at pay grade 54 (Code 1017/Pay range 20, alternative 10) in the state salary scale. This constitutes a gross annual salary of NOK 491 200. 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 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 that the master's thesis has been submitted
- 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 Martin Fernø, Department of Physics and Technology (Martin.Ferno@uib.no, +4755582792)

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.

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=PLf8ZIYfAO0qjhROTj6SthDbSScg0ISO6G>

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:

Christiesgt. 18 5020 Bergen (Bergen Municipality)