



Jobbnoge ID: 289326
Deadline: 12/5/2025
Website: <http://www.uio.no/>
Scope: Fulltime
Duration: Temporary

Postdoctoral researcher in Active Learning for Arctic observing systems

About the position

Position as Postdoctoral Research Fellow available at the Department of Geosciences.

Starting date is preferably no later than 01 March 2026.

The appointment is a fulltime position and is for a period of three years (10% of which can be devoted to required duties, usually in the form of teaching activities).

No one can be appointed for more than one Postdoctoral Research Fellowship at the University of Oslo.

Project description

We invite applications for a postdoctoral position focused on developing actively learning observing systems for carbon, water, and energy exchange in Arctic environments. The position centers on creating frameworks that allow environmental observing systems to adapt and learn from data - identifying which measurements are most informative and guiding where, when and how to observe next. By combining Bayesian inference, probabilistic modeling, and machine learning, the project aims to make Arctic observations more efficient, intelligent, and impactful.

You will integrate field observations - including ground - and drone - based measurements - along with satellite data, into land - surface and boundary - layer models, drawing on the department's unique infrastructure of eddy flux towers, drone platforms, and data assimilation frameworks. Field campaigns are planned in mainland Norway, Svalbard, and international Arctic sites. Funding is also available for conference attendances and research visits with external collaborators.

The position is part of the ERC Starting Grant "Actively learning experimental designs in terrestrial climate science (ACTIVATE)":
<https://www.mn.uio.no/geo/english/research/projects/activate/index.html>

The researcher will be part of a growing team of researchers, postdocs and PhD students working on intelligent observing systems using machine learning and data assimilation methods in the ACTIVATE project.

The main purpose of a postdoctoral fellowship is to provide the candidates with enhanced skills to pursue a scientific top position within or beyond academia. To promote a strategic career path, all postdoctoral research fellows are required to submit a [professional development plan](#) no later than one month after commencement of the postdoctoral period.

What skills are important in this role?

The Faculty of Mathematics and Natural Sciences has a strategic ambition to be among Europe's leading communities for research, education and innovation. Candidates for these fellowships will be selected in accordance with this, and expected to be in the upper segment of their class with respect to academic credentials.

Qualification requirements:

- Applicants must hold a degree equivalent to a Norwegian doctoral degree in geosciences, environmental sciences, computer/data science, physics, applied mathematics, or other relevant fields. Doctoral dissertation must be submitted for evaluation by the closing date. Only applicants with an approved doctoral thesis and public defence are eligible for appointment.
- The candidate must have a strong quantitative background and extensive experience in scientific programming (using e.g., Python, Matlab, and/or Julia), as well as a strong interest in climate science and biogeochemical cycling.
- Previous experience applying Bayesian inference, data assimilation, inverse modeling, and/or probabilistic machine learning to geoscientific or ecological models is highly desirable. Experience in high performance an advantage.
- The candidate must have proof of excellence in research as demonstrated through publications in refereed journals and presentations at scholarly conferences. The candidate's publication record must show evidence of creativity and capability of independent research.
- Fluent oral and written communication skills in English.
- The ability to meet the requirement for security clearance is required.

All candidates and projects will have to undergo a check versus national export, sanctions and security regulations. Candidates may be excluded based on these checks. Primary checkpoints are the Export Control regulation, the Sanctions regulation, and the national security regulation.

What are we looking for in you?

Personal skills:

- Good communication and collaboration skills
- Ability to work independently while having the ability to actively communicate and co-operate within the larger research team
- Ability to work precise in a structured manner and swiftly adapts to new tasks
- Positive attitude and the ability to handle hectic periods

Employment in the position is based on a comprehensive assessment of all qualification requirements applicable to the position, including personal skills.

We can offer you

- Exciting and meaningful tasks in an organization with an important societal mission, contributing to knowledge development, education, and enlightenment that promote sustainable, fair, and knowledge-based societal development.
- Committed colleagues in a good working environment.
- Good [welfare schemes](#).
- Opportunity of up to 1.5 hours a week of [exercise during working hours](#). A workplace with good development and career opportunities.
- [Postdoctoral development programmes](#).
- Membership in the [Statens Pensjonskasse](#), which is one of Norway's best pension schemes with beneficial mortgages and good insurance schemes.
- Salary in position as Postdoctoral Fellow, position code 1352 in salary range NOK 595 000 - 690 000, depending on competence and experience. From the salary, 2 percent is deducted in statutory contributions to the State Pension Fund.

We need different perspectives in our work

UiO is an open and internationally oriented comprehensive university that strives to be an inclusive and diverse workplace and academic environment. You can read more about UiO's work on equality, inclusion, and diversity at [uio.no](#).

We fulfill our mission most effectively when we draw upon our variety of experiences, backgrounds, and perspectives. We are looking for great colleagues, could you be the next one?

We will do our best to accommodate your needs. Relevant adjustments may include modifications to working hours, task adaptations, digital, technical, or physical adjustments, or other practical measures.

If you have an [immigrant background, a disability, or CV gaps](#) (Norwegian), we encourage you to indicate this in the job application portal. We always invite at least one qualified candidate from each group for an interview. In this context, disability is defined as an applicant who identifies as having a disability that requires workplace or employment-related accommodations. For more details about the requirements, please refer to the [Employer portal](#) (Norwegian).

The selections made in the job application portal are used for anonymized statistics that all state employers include in their annual reports. More information about gender equality initiatives at UiO can be found [here](#).

We hope you will apply for the position with us.

How to apply

The application must include:

- Cover letter (statement of motivation, summarizing scientific work and research interest)
- CV (summarizing education, positions, pedagogical experience, administrative experience and other qualifying activity)
- Copies of educational certificates, academic transcript of records
- Letters of recommendation
- A complete list of publications and up to 5 academic works that the applicant wishes to be considered by the evaluation committee
- Names and contact details of 2-3 references (name, relation to candidate, e-mail and telephone number)

Application with attachments must be submitted via our recruitment system Jobbnorge, click "Apply for the position".

When applying for the position, we ask you to retrieve your education results from [Vitnemålsportalen.no](#). If your education results are not available through Vitnemålsportalen, we ask you to upload copies of your transcripts or grades. Please note that all documentation must be in English or a Scandinavian language.

General information

The best qualified candidates will invited for interviews.

Please see the [guidelines](#) and [regulations](#) for appointments to Postdoctoral fellowships at the University of Oslo.

If an applicant has applied for and been granted funding for a fulltime research stay abroad while being employed as a Postdoctoral Research Fellow, the employment will be prolonged with the equivalent time as the research stay, but for no longer than of twelve months (thus extending the employment to a maximum of four years)

No one can be appointed twice as a Postdoctoral fellow financed with funds from The Research Council of Norway (NFR).

Applicant lists can be published in accordance with Norwegian Freedom of Information Act § 25. When you apply for a position with us, your name will appear on the public applicant list. It is possible to request to be excluded from this list. You must justify why you want an exemption from publication and we will then decide whether we can grant your request. If we can't, you will hear from us.

The University of Oslo has an [agreement for all employees](#), aiming to secure rights to research results a.o.

About the University of Oslo

The University of Oslo is Norway's oldest and highest rated institution of research and education with 26 500 students and 7 200 employees. Its broad range of academic disciplines and internationally esteemed research communities make UiO an important contributor to society.

The geosciences are the studies of the planet Earth and its comparative planetology; the atmosphere, the hydrosphere and cryosphere, the Earth's surface and its interior. The Department of Geosciences conducts research and teaching in most of the domains of geoscience; geology, geophysics, physical geography, geomatics, hydrology, meteorology and oceanography. The Department is the broadest geoscience research and education environment in Norway. We perform research at a high international standard and have five ERC (European Research Council) research projects ongoing.

The Department encompasses six scientific sections; Meteorology and Oceanography, Geography and Hydrology, Study of sedimentary basins, Environmental geosciences, and Crustal Processes. We host now a third in the line of three Centre of Excellences: PHAB - Centre for Planetary Habitability, and have a Norwegian Research School for PhD students (Research School for Dynamics and Evolution of Earth and Planets, DEEP).

The Department aims to contribute to the new and important UN Sustainability Development Goals, and are important contributors to IPCC (UN's Inter-governmental Panel on Climate Change). The staff consists of 40 professors and associate professors, in addition to postdoctoral fellows, PhD students, researchers, technical- and administrative staff. The Department has around 200 employees.

Additional information

Contact persons:

- For further information please contact: Norbert Pirk, Associate Professor
Phone: | E-mail: norbert.pirk@geo.uio.no
- For questions regarding Jobbnorge, please contact Ørjan Pretorius, HR-rådgiver
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Place of service:

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