



Jobbnorge ID: 274309
Deadline: 2/28/2025
Website: <http://www.uio.no/>
Scope: Fulltime
Duration: Temporary

PhD Research Fellow in Algebraic Topology

Job description

Position as PhD Research Fellow in **Algebraic Topology** is available at the Department of Mathematics.

The fellowship period is 3 years. A fourth year may be considered with a workload of 25 % that may consist of teaching, supervision duties, and/or research assistance. This is dependent upon the qualification of the applicant and the current needs of the department.

Starting date no later than October 1, 2025.

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

The PhD position will be under the supervision of Achim Krause in the Algebra, Topology and Geometry section of the Department of Mathematics. The topology group currently consists of Kim Frøyshov, Achim Krause and John Rognes, as well as one PhD student. The thesis project is somewhat flexible and will be decided together with the supervisor, but should be in the area of algebraic K-theory and stable homotopy theory. Applicants are encouraged to reach out to Achim Krause for a discussion of possible topics.

The objective of the position to complete a degree in the PhD programme of the Faculty of Mathematics and Natural Sciences.

Qualification requirements

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.

- Master's degree or equivalent in Mathematics, with a focus on geometry and topology
- Foreign completed degree (M.Sc.-level) corresponding to a minimum of four years in the Norwegian educational system

Candidates without a master's degree have until **30 June 2025** to complete the final exam.

Desired qualifications:

- A strong background in algebraic topology
- Previous experience in any of the following is not strictly necessary, but considered favorably: Stable homotopy theory, higher category theory, algebraic K-theory, algebraic geometry
- Research experience (for instance in form of a Master's thesis in algebraic topology)

Personal skills:

- Reliability
- Good communication skills
- Ability to work independently
- A good work ethic
- Active participation in the mathematical environment at UiO is expected

Grade requirements:

- the average grade point for courses included in the Bachelor's degree must be C or better in the Norwegian educational system
- the average grade point for courses included in the Master's degree must be B or better in the Norwegian educational system
- the Master's thesis must have the grade B or better in the Norwegian educational system

Language requirements:

- Fluent oral and written communication skills in English

English requirements for applicants from outside of EU/EEA/EFTA countries and exemptions from the requirements:

- <https://www.mn.uio.no/english/research/phd/regulations/regulations.html#toc8>

The purpose of the fellowship is research training leading to the successful completion of a PhD degree. For more information see:

- <http://www.mn.uio.no/english/research/phd/>

We offer

- 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 vibrant international academic environment.
- Good [welfare schemes](#).
- Opportunity of up to 1.5 hours a week of [exercise during working hours](#).
- Oslo's family-friendly surroundings with their rich opportunities for culture and outdoor activities.
- A workplace with good development and career opportunities.
- [Career 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 Doctoral Research Fellow, position code 1017 in salary range NOK 536 200 - 575 400, depending on competence and experience. From the salary, 2 percent is deducted in statutory contributions to the State Pension Fund.

Inclusive workforce and diversity at UiO

Inclusion and diversity are a strength. The University of Oslo has a personnel policy objective of achieving a balanced gender composition. Furthermore, we want employees with diverse professional expertise, life experience and perspectives.

If there are qualified applicants with disabilities, employment gaps or immigrant background, we will invite at least one applicant from each of these categories to an interview.

We hope that you will apply for the position.

More information about gender equality initiatives at UiO can be found [here](#).

How to apply

The application must include:

- Cover letter - statement of motivation and research interests
- CV (summarizing education, positions and academic work - scientific publications)
- Transcripts of records, copies of the original Bachelor and Master's degree diploma (see below)
- Documentation of English proficiency if applicable
- List of publications and academic work 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)

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 original transcripts or grades. Please note that all documentation must be in English or a Scandinavian language. Foreign applicants should attach an official explanation of their University's grading system.

The application with attachments must be delivered in our electronic recruiting system (please follow the link "Apply for this job").

General information

The best qualified candidates will be invited for interviews.

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.

Please refer to [Regulations for the Act on universities and colleges chapter 3](#) (Norwegian), [Guidelines concerning appointment to post doctoral and research posts at UiO](#) (Norwegian) and [Regulations for the degree of Philosophiae Doctor \(PhD\) at the University of Oslo](#).

The University of Oslo has a [transfer agreement](#) with all employees that is intended to secure the rights to all research results etc.

Contact persons

For further information please contact: Achim Krause, phone: +47 22 85 59 12, e-mail: achimkr@math.uio.no

For questions regarding Jobbnorge, please contact HR Adviser Ole Rustad, e-mail: ole.rustad@mn.uio.no

University of Oslo

The University of Oslo is Norway's oldest and highest rated institution of research and education with 28 000 students and 7000 employees. Its broad range of academic disciplines and internationally esteemed research communities make UiO an important contributor to society.

The Department of Mathematics is part of the Faculty of Mathematics and Natural Sciences at the University of Oslo. The Department is engaged in teaching and research covering a wide spectrum of subjects within mathematics, mechanics and statistics. The research is on theory, methods and applications. The areas represented include: fluid mechanics, biomechanics, statistics and data science, computational mathematics, combinatorics, partial differential equations, stochastics and risk, algebra, geometry, topology, operator algebras, complex analysis and logic.

We have almost 50 persons in permanent academic positions and a large number of post docs and Ph.D. students. We also have an administrative and technical staff. The department represents a leading research environment in mathematical areas in Norway, and has a highly international profile.

Additional information

Place of service:

Moltke Moes vei 35 0851 Oslo (Oslo Municipality)