

Jobbnorge ID: 280500
Deadline: 7/20/2025
Website: <http://www.ntnu.no>
Scope: Fulltime
Duration: Project

The Department of Mathematical Sciences has a vacancy for a

Postdoctoral Fellow in Representation Theory

This is NTNU

NTNU is a broad-based university with a technical-scientific profile and a focus in professional education. The university is located in three cities with headquarters in Trondheim.

At NTNU, 9,000 employees and 43,000 students work to create knowledge for a better world.

You can find more information about working at NTNU and the application process [here](#).

Video: <https://youtu.be/Xt-yHCN5QS0>

About the position

A postdoctoral fellowship in representation theory, under the guidance of Sondre Kvamme, is available at the Department of Mathematical Sciences at NTNU starting January 2026. The successful candidate will be offered a 4-year position. The place of employment will be Trondheim, Norway. The project will be conducted in the research group for Algebra at NTNU.

About the project

The position is part of the project “Monomorphism categories, finite abelian groups, nilpotent linear operators, and the Birkhoff problem” funded through a Researcher Project for Young Talents grant by The Research Council of Norway (FRIPRO).

A major goal of the project is to develop techniques and tools for studying the Auslander—Reiten theory of monomorphism categories, and to investigate the interactions with other areas of representations theory. The candidate is expected to work on topics related to the project, such as representation theory of monomorphism categories, topological data analysis, and Auslander—Reiten theory.

Duties of the position

- Conducting high quality research, both related to the position and to one’s own research projects.
- Writing and publishing papers in international, peer-reviewed journals.
- Participate in the [Algebra research group](#).
- Participate in and organizing international activities such as conferences and research stays.
- Teaching (clarified and specified in more detail if desired).
- Mentoring students at all levels (bachelor, master and PhD).

Required selection criteria

- You must have completed a doctoral degree in mathematics. PhD students in their last year are also invited to apply. NOTE: Documentation of the obtained doctorate must be presented before you can take up the position.
- Good oral and written skills in English.
- Good communication and collaboration skills and an independent, self-driven working style are essential.

PLEASE NOTE: For detailed information about what the application must contain, see paragraph “About the application”.

If you do not already have educational competence that meets the requirements for a position as associate professor in Norway, NTNU will arrange for you to acquire such competence during the employment period. In such cases, you will also be assigned relevant teaching as part of the career-promoting work.

If you cannot document skills in Norwegian, Swedish or Danish at [level A2](#) upon employment, you must complete [Norwegian courses](#) corresponding to at least 15 credits before the end of the employment period. NTNU will facilitate this.

The appointment is to be made in accordance with [Regulations for the Universities and Colleges Act \(university and colleges regulations\) and Regulations for the degrees philosophiaeductor \(ph.d.\) and philosophiaeductor \(ph.d.\) in artistic development work at the Norwegian University of Science and Technology \(NTNU\)](#) for general criteria for the position.

Preferred selection criteria

- Sound background in algebra and preferably a strong interest in both homological and computational methods.
- A strong track record of high level research in representation theory of finite dimensional algebras or related topics, relative to the time since defending the phd.
- Experience with Auslander—Reiten theory, monomorphism categories, or topological data analysis.

Personal characteristics

- Ambitions to deliver high-quality research.
- Good communication skills.
- Self-motivated and independent.
- Curious and open-minded.
- Structured work mode, able to set goals and make plans to achieve them.

Emphasis will be placed on personal qualities.

We offer

- Developing tasks in a strong and international professional environment.
- Career guidance throughout the postdoctoral program and together with you we will prepare a career plan, which contains the skills and knowledge you will acquire.
- Open and inclusive working environment with committed colleagues.
- Mentor programme as a new employee at NTNU.
- Favourable terms in the [Norwegian Public Service Pension Fund](#).
- [Employee benefits](#).

Diversity

Diversity is a strength, and at NTNU we aim to be an employer that reflects the diversity in society and that makes use of the potential of the population's collective skills. Our vision is [Knowledge for a better world](#) and [our values are creative, critical, constructive and respectful](#). We believe that an organization that is equal, diverse and gender-balanced is essential for us to achieve our goals.

We strive to attract employees with different skills, life experiences and perspectives to contribute to even better problem solving of our societal mission in research and education.

If you think this position is relevant and interesting, we encourage you to apply, regardless of gender, functional ability and cultural background, or whether you have been out of work for a period of time.

At NTNU we want to increase the proportion of women in scientific positions. We have a number of [measures](#) to promote equality.

Salary and conditions

As a Postdoctoral Fellow (code 1352) you are normally paid from gross NOK 594 500 per annum before tax, depending on qualifications and seniority. From the salary, 2% is deducted as a contribution to the Norwegian Public Service Pension Fund.

The period of employment is 4 years.

The position is conditional on external funding.

As an employee at NTNU, it is important to keep yourself up to date with academic and organizational changes and to adapt to them.

For the necessary professional and social interaction, it is a prerequisite that you are physically present and available to the institution on a daily basis.

The appointment is carried out in accordance with the principles of the [State Employees Act](#), and [Export control](#) (legislation that regulates the export of knowledge, technology and services). Candidates who, after assessment of the application and attachments, are considered to be in conflict with the criteria in the latter act, will not be able to be employed.

About the application

The attachments (including a description of your scientific work) must accompany the application as these documents form the basis of the application assessment. The documents must be in Norwegian/a Scandinavian language or English.

Please note: the application will only be assessed on the basis of the information we have by the application deadline. Therefore, make sure that your application clearly shows how your skills and experience meet the criteria described above.

The application must include:

- Transcripts and diplomas for Bachelor's-, Master's- and PhD degrees. If you have not yet completed your PhD, you must provide confirmation on your estimated date for the doctoral dissertation, or confirmation that your PhD thesis has been submitted. Documentation of a completed doctoral degree must be presented before taking up the position.

- CV.
- A copy of the doctoral thesis. If you are close to submitting, you can attach a draft of the thesis.
- Research plan.
- Academic works - published or unpublished (up to 10 publications).
- Name and contact information of up to three referees.

If all or parts of your education has been taken abroad, we also ask you to attach documentation of the scope and quality of your entire education. Description of the documentation required can be found [here](#). If you already have a statement from [Norwegian Directorate for Higher Education and Skills \(HK-dir\)](#), please attach this as well.

Joint works will be considered. If it is difficult to identify your contribution to joint works, you must attach a brief description of your participation.

If you have had leave or another break in your career, it is important that this is stated in your application so that the selection committee can take this into account and that the amount of your research may be reduced as a result.

In the evaluation of which candidate is best qualified, emphasis will be placed on education, experience and personal qualities. Motivation, ambitions and potential for research will also be emphasized in the assessment of the candidates.

NTNU recognizes a wide range of academic contributions and is committed to follow evaluation criteria for research quality according to [The San Francisco Declaration on Research Assessment DORA](#) and the obligations in [CoARA](#) (responsible assessment of research and recognition of a greater breadth of academic contributions in accordance with NTNU's social mission).

General information

A public list of applicants with name, age, job title and municipality of residence is prepared after the application deadline. If you wish to be exempt from entry on the public list of applicants, this must be justified. Assessment will be made in accordance with [current legislation](#). You will be notified if the exemption is not granted.

If you have any questions about the position, please contact Sondre Kvamme, email: sondre.kvamme@ntnu.no. If you have any questions about the recruitment process, please contact Lisa Wedershoven, email: lisa.wedershoven@ntnu.no.

If you find this position interesting, and in accordance with your qualifications, please submit your application electronically via jobbnorge.no with your CV, diplomas and certificates attached. Applications submitted elsewhere will not be considered. Upon request, you must be able to obtain certified copies of your documentation.

Application deadline: 20.07.2025.

For practical information about [working at NTNU](#), please visit this webpage.

[The city of Trondheim](#) is a modern European city with a rich cultural scene. [Trondheim is the tech capital of Norway](#) with a population of 200,000. The Norwegian welfare state, including healthcare, schools, kindergartens and overall equality, is probably the best of its kind in the world. Professional subsidized day-care for children is easily available. Furthermore, Trondheim offers great opportunities for education (including international schools) and possibilities to enjoy nature, culture and family life and has low crime rates and clean air quality.

NTNU

NTNU - knowledge for a better world

The Norwegian University of Science and Technology (NTNU) creates knowledge for a better world and solutions that can change everyday life.

Department of Mathematical Sciences

We are Norway's largest university environment in mathematical sciences. The Department has a particular responsibility for all basis education in mathematical sciences for engineering and natural science students at NTNU. We focus on long-term basic research and applied research at a high international level.

Our aim is to meet the society's needs for mathematical and statistical expertise in business and public administration as well as in the research and education sector. [The Department of Mathematical Sciences](#) is one of seven departments in the [Faculty of Information Technology and Electrical Engineering](#).

Additional information

Place of service:

Høgskoleringen 1 7491 Trondheim (Trondheim Municipality)