



NTNU

Norwegian University of
Science and Technology

Jobbnorge ID: 275472
Deadline: 3/10/2025
Website: <http://www.ntnu.no>
Scope: Fulltime
Duration: Project

The Department of Mathematical Sciences is looking for a

PhD Candidate in Analysis

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

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

About the position

Are you motivated to take a step towards a doctorate and open up exciting career opportunities? As a PhD Candidate with us, you will work to achieve your doctorate, and at the same time gain valuable experience that qualifies you for a further career in higher education and research, in and outside academia.

The position is part of the project "Multiplicative Analysis" funded by the Research Council of Norway through its program for groundbreaking research (FRIPRO). The project is carried out within the [Analysis group](#) of the Department of Mathematical Sciences.

Ole Fredrik Brevig is the Principal Investigator of the project and will act as the main advisor of the PhD Candidate.

The successful candidate is expected to take up the position in August/September 2025.

About the project

Multiplicative analysis concerns systematic study of Dirichlet series from the point of view of modern operator-related function theory and lies in the intersection of complex analysis, operator theory, and analytic number theory. The main objective of the research project is to solve problems reinforcing the interplay between these different branches of analysis using tools such as multiplicative chaos, resonators to the Riemann zeta function, almost periodicity, and infinite-dimensional harmonic analysis.

Duties of the position

- Complete the doctoral education until obtaining a doctorate.
- Carry out research of good quality within the framework described above.
- Academic publications and popular science dissemination.
- Participate in the [Analysis](#) research group.
- Participate in international activities such as conferences and/or research stays at foreign educational institutions.

Be prepared for changes to your work duties after employment.

Required selection criteria

- You must have a professionally relevant background in mathematics.
- You must have a Master's degree in mathematical analysis or equivalent. Your course of study must correspond to a five-year Norwegian course, where 120 credits have been obtained at master's level. Master's students can apply, but the master's degree must be obtained and documented before starting the position and no later than 01.10.2025.
- You must have a strong academic background from your previous studies and have an average grade from your Master's degree study, or equivalent education, which is equal to B or better compared to [NTNU's grading scale](#). If you do not have letter grades from previous studies, you must have an equally good academic foundation. If you have a weaker grade background, you may be considered if you can document that you are particularly suitable for a PhD education.
- You must meet the requirements for admission to the faculty's Doctoral Programme (<https://www.ntnu.edu/studies/phma>).

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

As a result of the new Act relating to universities and university colleges with associated regulations of 01.08.2024, NTNU has, during a transitional period (for decisions on employment in recruitment positions before 1 August 2025), chosen to use the terms of employment in the old [regulations of 31 January 2006 no. 102 on terms of employment for positions such as postdoctoral fellow, research fellow, scientific assistant and specialist candidate](#)

Preferred selection criteria

- Strength and relevance of scientific background.
- Good written and oral English language skills.
- Ability to clearly communicate mathematics both orally and in writing.

Personal characteristics

- High self-motivation.
- Intrinsic curiosity and open-minded attitude.
- Independent working style.

Emphasis will be placed on personal and interpersonal qualities.

We offer

- An exciting job with an important [mission](#) in society.
- Developing tasks in a strong and international professional environment.
- Career guidance and [follow-up during the PhD period](#).
- Open and inclusive working environment with committed colleagues.
- [Working capital](#) that can be used to implement the project.
- As a public employee, you have favorable benefits as a member of the [Norwegian Public Service Pension Fund \(SPK\)](#).

You will be employed as a PhD Candidate at NTNU and will have access to [employee benefits and discounts](#).

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

In the position of PhD Candidate, code 1017, your gross salary will normally be NOK 536 200,- per annum depending on qualifications and seniority. A 2% statutory contribution to the State Pension Fund is deducted from the salary.

The employment period is 3 years.

For employment as a PhD Candidate, it is a prerequisite that you gain admission to the PhD programme in [Mathematical Sciences](#) within three months of your employment contract start date, and that you participate in an organized doctoral programme throughout the period of employment.

The position is conditional on external funding.

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

For the necessary academic 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 received by the application deadline. Therefore, make sure that your application clearly shows how your skills and experience meet the criteria described above. The application and all

attachments must be sent electronically via Jobbnorge.no. If you are invited to an interview, you must bring certified copies of certificates upon request.

The application must include:

- Transcripts and diplomas for Bachelor's and Master's degrees.
- CV.
- Copy of Master's thesis. If you have recently submitted your Master's thesis, you can attach a draft of the thesis. Documentation of a completed Master's degree must be presented before taking up the position.
- Short letter of motivation (400 words/1 page).
- Possibly publications or other relevant research work.
- Possibly certificates.
- Names and contact information of three relevant 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, both Bachelor's and Master's education, in addition to other higher education. If your institution uses "diploma supplement" (normal for most European institutions), you must attach this. A description of the documentation required can also 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 work, you must attach a brief description of your participation.

When assessing the best qualified, we emphasize necessary qualifications such as education, experience and personal suitability. Motivation for the position, ambitions and potential for research will also count when assessing the candidates.

NTNU recognizes a wide range of academic contributions and has committed itself to The San Francisco Declaration on Research Assessment and 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 applicant list, 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 think this position looks interesting and in line with your qualifications, you are welcome to apply.

If you have any questions about the position, please contact Ole Fredrik Brevig (ole.brevig@math.ntnu.no).

Application deadline: 10.03.2025

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 - knowledge for a better world

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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)