

Postdoctoral Positions in Probability Theory and Analysis – Aarhus University

The Department of Mathematics at **Aarhus University** invites applications for **postdoctoral positions** in the research group of **Fabrice Baudoin**. The positions are within the fields of **probability theory, geometry and analysis**, with a focus on research at the interface of these areas.

About the Positions

Successful candidates will join a vibrant and international research environment, collaborating closely with Professor Baudoin and other members of the probability and analysis groups. Projects may include, but are not limited to:

- Analysis on metric spaces including fractals
- Heat kernel estimates and functional inequalities
- Rough paths, stochastic differential equations and stochastic PDEs
- Sub-Riemannian geometry

The positions are full-time, fixed-term appointments, with an earliest start date on February 1st 2026.

We Offer

- **Attractive salary and benefits** in accordance with Danish agreements for academic staff, including a competitive pension plan.
- **International, welcoming work environment:** The Department of Mathematics hosts researchers from diverse countries and fosters a collaborative, friendly atmosphere.
- **Excellent work-life balance:** Denmark consistently ranks among the top countries for quality of life, safety, and work-life integration.
- **Family-friendly policies:** Generous parental leave and comprehensive social welfare support.
- Opportunities for conference travel, research visits, and collaboration with leading experts worldwide.
- Aarhus – a vibrant university city by the sea, combining rich cultural life with easy access to nature.

Qualifications

- PhD in mathematics (completed or expected before start date).
- Preferred research record in probability theory, analysis, or related areas.
- Ability to work independently and collaboratively in an international team.

Place of work

Place of employment is Aarhus University, and place of work is Department of Mathematics, Faculty of Natural Sciences, Ny Munkegade 118, 8000 Aarhus C.

Application procedure

Shortlisting is used. This means that after the deadline for applications – and with the assistance from the assessment committee chairman, and the appointment committee if necessary, – the head of department selects the candidates to be evaluated. All applicants will be notified whether or not their applications have been sent to an expert assessment committee for evaluation. The selected applicants will be informed about the composition of the committee, and each applicant is given the opportunity to comment on the part of the assessment that concerns him/her self. Once the recruitment process is completed a final letter of rejection is sent to the deselected

Application Deadline:
25 September 2025

Faculty:
Faculty of Natural
Sciences

Institute/Faculty:
Department of
Mathematics

Academic contact person:
Fabrice Baudoin
Professor
fbaudoin@math.au.dk
+4587151872

Vacant positions:
3

Hours per week:
37

Number of months:
36

Expected date of accession:
01/02/2026

applicants.

Letter of reference

If you want a referee to upload a letter of reference on your behalf, please state the referee's contact information when you submit your application. We strongly recommend that you make an agreement with the person in question before you enter the referee's contact information, and that you ensure that the referee has enough time to write the letter of reference before the application deadline. Unfortunately, it is not possible to ensure that letters of reference received after the application deadline will be taken into consideration.

If you wish to add a referee **after** you have submitted your application, you must send this person's details (name, job title, place of work, and email address) as well as the name of the position you have applied for to: HR.Nattech@au.dk

Formalities and salary range

Natural Sciences refers to the [Ministerial Order on the Appointment of Academic Staff at Danish Universities under the Danish Ministry of Science, Technology and Innovation](#).

The application must be in English and include a curriculum vitae, degree certificate, a complete list of publications, a statement of future research plans and information about research activities, teaching portfolio and verified information on previous teaching experience (if any). Guidelines for applicants can be found [here](#).

Appointment shall be in accordance with the collective labour agreement between the Danish Ministry of Taxation and the Danish Confederation of Professional Associations. Further information on qualification requirements and job content may be found in the [Memorandum on Job Structure for Academic Staff at Danish Universities](#).

Salary depends on seniority as agreed between the Danish Ministry of Taxation and the Confederation of Professional Associations.

Aarhus University's ambition is to be an attractive and inspiring workplace for all and to foster a culture in which each individual has opportunities to thrive, achieve and develop. We view equality and diversity as assets, and we welcome all applicants.

Research activities will be evaluated in relation to actual research time. Thus, we encourage applicants to specify periods of leave without research activities, in order to be able to subtract these periods from the span of the scientific career during the evaluation of scientific productivity.

Aarhus University offers a broad variety of services for international researchers and accompanying families, including relocation service and career counselling to expat partners. Read more [here](#). Please find more information about entering and working in Denmark [here](#).

Aarhus University also offers a Junior Researcher Development Programme targeted at career development for postdocs at AU. You can read more about it [here](#).

At the Faculty of Natural Science at Aarhus University, we strive to support our scientific staff in their career development. We focus on competency development and career clarification and want to make your opportunities transparent. On [our website](#), you can find information on all types of scientific positions, as well as the entry criteria we use when assessing candidates. You can also read more about how we can assist you in your career planning and development.

The application must be submitted via Aarhus University's recruitment system, which can be accessed under the job advertisement on Aarhus University's website.

Aarhus University

Aarhus University is an academically diverse and research-intensive university with a strong commitment to high-quality research and education and the development of society nationally and globally. The university offers an inspiring research and teaching environment to its 38,000 students (FTEs) and 8,300 employees, and has an annual revenues of EUR 935 million. Learn more at www.international.au.dk/