



Research associate

AtMath Collaboration

University of Helsinki, Finland

Job description

Applications are invited for **several** postdoctoral Research Associate positions in the AtMath Collaboration at the University of Helsinki. The mission of the AtMath Collaboration is to bring together mathematicians and atmospheric scientists to use and develop mathematical tools essential to any significant progress in the understanding of planetary problems.

The collaboration involves the groups of Academy Professor Antti Kupiainen (Department of Mathematics and Statistics, Mathematical Physics), Academy Professor Matti Lassas (Department of Mathematics and Statistics, Inverse Problems Research), Professor Hanna Vehkamäki (Department of Physics, Division of Atmospheric Sciences) and Academy Professor Timo Vesala (Department of Physics, Meteorology, Biogeochemistry).

The candidate will have a PhD in Mathematics or/and Physics and an interest in applications to Atmospheric Sciences. The candidate will be able to carry out research activity in the scientific field of at least one of the AtMath groups and at the same time to interact with the others according to the aims and spirit of the collaboration. Candidate profiles with expertise in analytic-theoretical and/or numerical approaches will be considered.

The first round of hiring pertains positions starting between 01.01.2017 and 30.09.2017. Particular attention will be given to candidates with experience in the following fields.

- Molecular dynamics or Monte Carlo methods, conformational sampling of molecular systems, and reaction dynamic/kinetic methods.
- Statistical and stochastic inverse problems, sparsity promoting inversion.
- Transport phenomena and kinetic theory, homogenization and renormalization methods, PDE methods.

For detailed information on the research activity of AtMath please visit <http://wiki.helsinki.fi/display/atmath/Home>. The salary will be competitive in agreement with the University of Helsinki salary scale (job-specific/work performance grades: 5/4, 3326€/month, to 5/8, 4020€/month). The position will be of 2 years with possible extension up to a maximum of 4 years. For informal queries to find out more about the role please write to atmath-info@helsinki.fi.

The University of Helsinki is one of the leading multidisciplinary research universities in the world and the leading university in Finland. The university, with a staff of over 8,000, operates on four campuses in. There are 35,000 students, and a further 30,000 participate in adult education. Founded in 1640, the University of Helsinki wants to strengthen its position among the world's leading multidisciplinary research universities and to actively promote the well-being of humanity and a fair society.

How to apply

To apply for this role, please go to

<http://elomake.helsinki.fi/lomakkeet/73865/lomake.html>

and submit the specified application form. Completing the submission will require including in separate attachments the candidate CV including publication list and a short statement of interests. The candidate will also indicate name and address of three reference persons for academic recommendation.

Applications for positions in the Inverse Problems Research Group can also be submitted to

<http://www.mathjobs.org>

The University of Helsinki is committed to promoting equality and preventing discrimination in all its operations

(see http://www.helsinki.fi/henkos/tasa-arvo/equality_and_diversity_plan_2013-2016.pdf)

The deadline for applications is 28.02.2017.



AtMath webpage



Application form