



NORDITA

PHD STUDENT IN PARTICLE TRANSPORT AND CLUSTERING IN STRATIFIED TURBULENT FLOWS

Nordita, the Nordic Institute for Theoretical Physics, and the Department of Meteorology at Stockholm University, announce a PhD student position within a project supported by the Research Council of Norway.

The successful candidate will be working on a number of topics related to particle clustering and raindrop formation including:

- large-scale clustering in stratified turbulence
- small-scale clustering in stratified turbulence
- their effects on acceleration of raindrop formation in clouds
- particle transport and clustering in rotating atmospheric turbulence

The PhD student will work under the supervision of Professor Axel Brandenburg at Nordita, and co-supervision of Professors Annica Ekman, Rodrigo Caballero, or Gunnilla Svensson at the Department of Meteorology at Stockholm University (MISU), in collaboration with Professors Helge Andersson and Nils Erland Haugen at NTNU in Trondheim, and Professor Igor Rogachevskii at Ben-Gurion University and Nordita.

Another PhD student will also be appointed within the same project, and will be affiliated with NTNU in Trondheim, Norway. A close collaboration between the groups in Stockholm and Trondheim is anticipated as they will be working on related topics.

QUALIFICATIONS: Applicants must have completed a university degree of 240 ECTS points (corresponding to 4 years of study), of which at least 60 points at the master level. At least 90 points must be in one of the subjects **meteorology, oceanography, physics or chemistry**, at least 15 points must be in **mathematics**, and an **independent project work** corresponding to at least 15 points must have been completed. The requirements can also be met by acquiring the corresponding knowledge in some other way, in Sweden or abroad.

EMPLOYMENT: The successful candidate will be supported as a PhD student for 4 years. An extension is possible if the student takes up teaching or other duties at the department. **The position will start on 1 September 2014**, or some other date agreed upon. The PhD student will be formally enrolled in the PhD program in Atmospheric Sciences and Oceanography at Stockholm University, within MISU, and will have office space at both Nordita and MISU.

APPLICATION: The application should include a curriculum vitae with a list of publications (if applicable), 2 letters of recommendation, a verified list of courses with grades and a motivation why the applicant wants to pursue studies for a PhD at Nordita and MISU. The application should be filed online at

jam.nordita.org

The deadline for applications is

2 May, 2014

Further information can be given by Axel Brandenburg, phone: +46 8 5537 8707, e-mail: brandenb@nordita.org. See also www.nordita.org/~brandenb/TurboPart

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