

One **PhD student position in numerical modeling of convective clouds** is available at the Institute of Geophysics, Faculty of Physics, University of Warsaw (IGFUW) in Poland; www.igf.fuw.edu.pl/en/.

The PhD project starts on the 1st of October 2018.

The successful candidate will join the research group on Microphysics of Clouds at the IGFUW. The group investigates the dynamics of convective clouds in a wide range of spatial and temporal scales: from the detailed microphysics of individual aerosol and cloud droplets (activation, growth by condensation, and collision-coalescence), to the motion of the whole cloud. The group develops and applies a Lagrangian Cloud Model, where the cloud-scale flow computed by Large-Eddy Simulations is coupled with a Lagrangian description of the cloud-particle microphysics.

The PhD research tasks include development and testing of a stochastic Lagrangian simulation approach to investigate the role of turbulence in the microphysical processes that shape the droplet spectrum in convective clouds. The PhD work will be carried out within the project “**Turbulent dynamics and microphysics in a Stochastic Lagrangian Cloud Model**” funded by the Polish National Science Center.

Qualifications and Requirements:

1. Master’s degree in Physics, Engineering, Chemistry or a related discipline (MSc degree must be completed at latest in September 2018).
2. Expertise in C++, Python or FORTRAN.
3. Good spoken and written English.
4. Experience in turbulence modeling and stochastic processes is advantageous.
5. Enrollment as a doctoral student at the Faculty of Physics, University of Warsaw. Recruitment procedure starts in June 2018. Detailed information may be found at www.fuw.edu.pl/phd-studies.html.

Our offer:

A PhD scholarship of 3 000 PLN (about 715 €, tax-free) guaranteed initially for 30 months (extension possible) and access to international travel funds.

Applications:

Applications including detailed CV, a short description of scientific interests and motivation, and contact information of at least one referee should be sent by e-mail to hanna.pawlowska@igf.fuw.edu.pl. The deadline is 31st of May 2018.

For further information about the project, please contact:

Prof. Hanna Pawłowska (hanna.pawlowska@igf.fuw.edu.pl)
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