

## **Research position in surface-atmosphere interactions**

One postdoctoral research position is available in the Department of Meteorology at the Pennsylvania State University. Research broadly relates to the topic of surface-atmosphere interactions. Examples of research activities include atmospheric boundary layer thermodynamics, chemical processing of biogenic hydrocarbons in and above forest canopies, gas-to-particle conversion processes, pollutant transport and deposition, influence of phytogenic-based aerosols on cloud formation processes, and impacts of increasing urbanization on ecohydrological processes. Field, numerical, and theoretical studies are undertaken to address the research activities. Excellent laboratory, computing resources, and field facilities are available to carry out the research. The candidate is expected to interact with an interdisciplinary team of scientists involving meteorologists, climate scientists, atmospheric chemists, turbulence experts, and numerical modelers.

The incumbent needs to have a PhD degree in atmospheric sciences, fluid mechanics, ecohydrology, atmospheric chemistry, applied mathematics, or a closely related field. Research experience in field studies involving flux towers, tethered balloons, and upper air soundings is highly desirable. Also, experience in developing and/or running numerical models (e.g., Weather, Research & Forecasting (WRF), Large Eddy Simulation (LES)) designed to investigate boundary layer and cloud formation processes is preferable. Excellent oral and written communication skills are important because the incumbent will contribute to peer-reviewed publications, research proposal development, and presentation of results at national and international conferences. The salary will be competitive and commensurate with relevant experience. Interested candidates need to electronically submit an application including: (1) a statement describing qualifications, (2) curriculum vitae, and (3) names and contact information for three references. For additional information, please write to Jose D Fuentes (E-mail: [jdfuentes@psu.edu](mailto:jdfuentes@psu.edu)) or Marcelo Chamecki (E-mail: [chamecki@psu.edu](mailto:chamecki@psu.edu)). This is a fixed-term appointment funded for one year from date of hire with excellent possibility of renewal. The incumbent will start the appointment on 1 September 2013.

The Pennsylvania State University is committed to affirmative action, equal opportunity, and the diversity of its workforce.