Postdoc Research Position at the Georgia Institute of Technology, School of Earth and Atmospheric Sciences

Desired Start Date: Summer/Fall 2019
Keywords: CCN, aerosol-cloud interactions, Brown Carbon, Oxidative Potential, Acidity, Aqueous Chemistry

Description
The research groups of Professors Rodney Weber and Athanasios Nenes are seeking a Post Doc researcher to participate in the upcoming NASA CAMP2EX mission investigating aerosol-cloud interactions (https://espo.nasa.gov/camp2ex). This will involve providing a first quick look at NASA P3 aircraft CCN data generated during the mission and subsequent detailed data analysis focusing on aerosol-cloud interactions. This work is expected to account for roughly one-half of the full time position available. A number of other research topics are open to the candidate, depending on interest. This includes i) developing a global climatology of cloud droplet susceptibility derived from archived ambient data for constraining and evaluating global climate models, ii) participating in on-going studies related to aerosol brown carbon, oxidative potential, acidity or the role of aqueous phase reactions in organic aerosol aging. This is an opportunity for the candidate to explore areas of their own personal interest within the current topics being investigated by the Weber/Nenes collaborations with leading groups in Europe and the US. In support of the research projects carried out, the candidate can also be hosted by the Laboratory of Atmospheric Processes and their Impacts (LAPI) at the Ecole polytechnique fédérale de Lausanne in Switzerland (http://lapi.epfl.ch) and the Laboratory for Air Quality Studies (LAQS) at the Foundation for Research and Technology Hellas at Patras, Greece (http://laqs.iceht.forth.gr).

A PhD in engineering, physics, chemistry, atmospheric science or related field with significant experience in experimental work with aerosols is required. The position will be filled for one plus one years. Funding from the projects comes from NASA.

For more information, please contact Prof. R. Weber (rweber@eas.gatech.edu) and Prof. A.Nenes (athanasios.nenes@gatech.edu) for more information and questions. To be considered for the position please send your CV and a cover letter. Requests and applications will be accepted until the position is filled.