

*Institut für Physik der Atmosphäre
Johannes-Gutenberg-Universität Mainz*

The Institute for Physics of the Atmosphere of the Johannes Gutenberg University in Mainz (Germany) has an immediate opening for a

Doctoral Position on Investigation of Mineralogical Composition and Optical Properties of Aged Saharan Mineral Dust

within the project “Physico-Chemical Parameters of Mixed Mineral, Biomass Burning and Marine Aerosols” which is part of the research group “Saharan Mineral Dust Experiment SAMUM”.

We invite qualified candidates to apply for this position.

The goals of the SAMUM research group (<http://www.tropos.de/samum/>) are the radiative closure in the mixed dust/biomass plume, the quantification of radiative effects, and methods for quantitative prediction of dust including feedbacks to meteorological processes.

Goal of the specific project “Physico-Chemical Parameters of Mixed Mineral, Biomass Burning and Marine Aerosols”, of which the open position is part of, is the determination of the detailed chemical and mineralogical composition of aged Saharan aerosol mixtures, as well as general physical aerosol properties.

The successful candidate is expected to optimize the method of X-ray diffraction analysis for atmospheric aerosol samples. This technique shall be applied to samples from field campaigns in the Republic of Cape Verde in 2008. The candidate is expected to actively participate in at least one of these campaigns. In addition to X-ray diffraction other supplementary methods will have to be operated by the aspirant.

The position is for three years, starting from the earliest possible date.

The candidate should have a diploma (or equal) in physics, chemistry or earth sciences and experience with X-ray diffraction and/or electron-microanalytical methods. Capability to work experimentally on its own initiative is necessary.

Experience in mineralogy is of benefit. Ability to use personal computers and contemporary software, knowledge of a programming language, and fluently spoken English language are required.

The salary will be based in $\frac{1}{2}$ x the German TVöL 13, depending in education and includes the social benefits for civil service. The Johannes Gutenberg University wishes to increase the number of female co-workers, and applications from women are particularly encouraged.

The project is operated in a close cooperation between the Institute of Physics of the Atmosphere, University of Mainz and the Institute of Applied Geosciences, Technical University of Darmstadt.

Please send your applications including a CV and copies of academic certificates to the Institute for Physics of the Atmosphere, Johannes Gutenberg University, Becherweg 21, 55099 Mainz, Germany.

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