

The Institute of Environmental Physics and Remote Sensing at the University of Bremen is looking for a PostDoc (TVL 13, 100%), starting on January 1st, 2012 for the duration of three years in the field of

Satellite Remote Sensing of Tropospheric Constituents and Integration with Model Results

The Institute of Environmental Physics at the University of Bremen has been working on remote sensing of atmospheric composition from satellite observations since 1995. The method used here is based on the Differential Optical Absorption Spectroscopy (DOAS) of scattered sunlight and allows the determination of global maps of tropospheric trace gases such as NO₂, SO₂, or HCHO.

In the framework of the EU project MACC-II, IUP Bremen will validate results from several atmospheric models with independent satellite observations. In addition, model data will be incorporated as a priori information into the data analysis in order to improve retrievals on data from instruments such as SCIAMACHY and GOME-2, and to facilitate synergistic interpretation of results. This work builds on existing data, algorithms and results, and will be executed in close collaboration with other members of the working group.

Requirements:

- A PhD and Master or Diploma in Physics or a related discipline
- Experience in at least one higher programming language
- Interest in data analysis and atmospheric research
- Good knowledge in spoken and written German and / or English
- Good knowledge and experience in at least one of the following fields: physics and chemistry of the atmosphere, remote sensing of atmospheric composition, radiative transfer, inversion theory, atmospheric modelling

The Institute of Environmental Physics offers a friendly working atmosphere and excellent working environment. The position is integrated into the SCIAMACHY project and the interdisciplinary and international MACC-II project (<http://www.gmes-atmosphere.eu/>).

More information on the institute and the DOAS group can be found at <http://www.iup.physik.uni-bremen.de/eng/> and <http://www.doas-bremen.de>.

As the University of Bremen intends to increase the proportion of female employees in science, women are particularly encouraged to apply. In case of equal personal aptitudes and qualification priority will be given to disabled persons.

Please direct applications and questions in electronic form until **November 15, 2011** to

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Please include standard documentation (CV, references, copies of diplomas, letter of motivation) and mention our reference **A 172/11**.