

The Institute of Environmental Physics and Remote Sensing at the University of Bremen is offering a PhD position (TVL 13, 50%), starting on January 1st, 2012 for the duration of three years in the field of

### **Retrieval of vertical profiles from ground-based MAX-DOAS observations**

The Institute of Environmental Physics at the University of Bremen has been operating ground-based instruments for remote sensing measurements of atmospheric trace gases at several stations since 1995. The method used is based on the Differential Optical Absorption Spectroscopy (DOAS) of scattered sunlight and allows the detection of a number of tropospheric trace gases and also the retrieval of their vertical distribution at low resolution.

In the framework of the EU project NORS, the operation of the measurements is to be continued and the data analysis to be improved. In particular the retrieval of vertical profiles should be refined and the ability of a new generation of instruments observing in many directions should be exploited. This work builds on existing instruments, data, and algorithms, and will be executed in close collaboration with other members of the working group.

Requirements:

- A Master or Diploma in Physics or a related discipline
- Very good knowledge 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, meteorology, remote sensing of atmospheric composition, radiative transfer, inversion theory

The Institute of Environmental Physics offers a friendly working atmosphere and excellent working environment. The position is integrated into the international NORS project.

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 **December 2, 2011** to

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Please include standard documentation (CV, references, copies of diplomas, letter of motivation) and mention our reference **A 186/11**.