The Air Chemistry Department at the Max Planck Institute for Chemistry (MPIC) in Mainz invites applications for a

POSTDOC POSITION ON EMISSIONS FROM GAS FLARING

Emissions of black carbon and other smoke constituents from industrial gas flares are still poorly quantified, despite playing an important role for the climate and air quality. The successful candidate will develop and apply innovative algorithms for the calculation of global emission rates of gas flares from the infrared observations of ESA's new Sentinel-3 satellite, augmented with further ESA, DLR and NOAA satellites. This work will contribute to ESA's satelite calibration activities and lay the foundations for an operational implementation in EU's Copernicus Atmosphere Monitoring Service.

The successful candidates must have
• a PhD in physics or a related discipline,
• experience the analysis of large datasets,
• experience with programming in Python, shell, Fortran, C, C++ and or similar • mathematical problem-solving skills,
• working knowledge of the English language,
• and the ability to work self-reliantly.

The following would be further advantages: experience with remote sensing and satellite data, knowledge of atmospheric physics and chemistry or gas flaring, peer-reviewed publications, good communications skills, and knowledge of the German language.

The work will be carried out in the Fire Emissions group, in close collaboration with the Satellite Research and Global Modelling groups at MPIC, and DLR, ESA, ECMWF, CNRS and Zebris GmbH. (http://www.mpic.de/forschung/atmosphaerenchemie/gruppe-kaiser.html)

Payment and benefits will be according to the German TVöD payscale, TVöD 13. Initial appointment is for 1 year, renewal by 1.5 years will be possible upon mutual satisfaction.

The Max Planck Society wishes to increase the number of female coworkers, and applications by women are particularly encouraged. The Max-Planck-Society has set itself the objective of employing more people with disabilities. Applications from people with disabilities are expressly encouraged.

Please send your application (1-2 pages), CV, list of publications and contact details of two referees by 10 December 2014 to Johannes Kaiser <j.kaiser@mpic.de>.

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