



The Institute for Advanced Sustainability Studies e.V. (IASS) is an international, interdisciplinary center of excellence located in Potsdam, Germany. The IASS is financed by the Federal Ministry of Education and Research and the Federal State of Brandenburg and devoted to promoting science and research for global sustainability, particularly in the areas of climate change, the earth system and the development of new technologies and social pathways to sustainability. Further information about the IASS can be accessed under www.iass-potsdam.de/en.

Air pollution is a significant issue in central Europe. Not only does it have negative impacts on health, ecosystems including agriculture, and visibility, it also contributes to climate change. At the IASS we are addressing this issue through a combination of measurements, modelling, and engaging closely with stakeholders from politics and society. Within this framework, we will be extending the air pollutant measurements we have been making in the greater Berlin region.

For this, at the earliest date possible we are looking for a

**Research Associate (m/f) for the research programme
„Air Quality in the Context of Global Change“**

Ref. No. AQGC-2016-03

A post-doctoral or well-qualified PhD candidate position is available for 2.5 years with the possibility of extension to conduct air pollution measurements using cutting edge small sensor technology in the Berlin area. The successful candidate will participate in a large, collaborative third-party funded air quality and climate change measurement campaign in Germany. This project is part of one of three modules in a larger consortium effort to provide city-scale information about air quality and climate change to support decision-making. The focus of this work will be to provide high time and high spatial scale resolution measurements in an urban area to support city-scale model development. More specifically, the candidate will be implementing a number of small sensors for the measurement of NO₂, O₃, and particles at high temporal and spatial scales. The sensors are in development and collaboration with the instrument producers is planned. The work will include coordination of both long-term measurements over the course of the project, as well as four 2-month intensive measurement periods with project partners in Berlin and possibly other cities in Germany. Initial testing of the instruments prior to implementation will be required, along with calibrations and QaQc throughout the implementation period. After the initial set-up and measurement periods, data analysis will be essential, including coordination in the larger project for use in model evaluation and integration into project databases and/or other platforms. Finally, the candidate will be expected to publish the results in peer-reviewed journals, as well as present initial results at (inter)national scientific conferences, and/or at local fora for interested stakeholders.

The following **qualifications** are requested for applicants:

- A PhD in atmospheric science or related field (for post-doctoral applicants), or a bachelor's and master's degree in atmospheric science or related field (for PhD candidate applicants)
- Experience with air quality measurement techniques is essential
- Experience analyzing (large) measurement data sets
- Knowledge of atmospheric chemistry processes and climate change
- Fluency in written and spoken English and a working knowledge of German
- Ability to work independently and as part of a team



The position is to be filled **by June 1 or as soon as possible thereafter** and is limited to 2.5 years with the possibility of a short-term extension. The position depends on the final confirmation of the BMBF funding of the project. The remuneration will be according to the German public service federal employment system (TVöD Bund E13). Place of work is Potsdam, Germany. The IASS particularly encourages applications from female researchers; handicapped applicants will be given preference in case of equal qualifications.

Are you interested in joining a dedicated, exciting team in a strongly transdisciplinary environment? Then please send us an application including a statement of scientific background, interests and plans, a curriculum vitae, a list of publications, and names of 2-3 references. Please send all information either in hard copy or by e-mail to tanja.baines@iass-potsdam.de or to „Institute for Advanced Sustainability Studies e.V.“, Tanja Baines, Berliner Str. 130, 14467 Potsdam, Germany. Please refer to the reference number given above.

Deadline for application: **8. May 2016**