



The Institute for Advanced Sustainability Studies e.V. (IASS) is financed by the Federal Ministry of Education and Research and the Federal State of Brandenburg. The IASS conducts research with the goal of understanding, advancing, and guiding processes of societal change towards sustainable development. In order to develop a common understanding of sustainability challenges and generate potential solutions the IASS collaborates with diverse actors from science, policymaking and public administration as well as business and civil society. It pursues a research approach that is transformative, transdisciplinary and co-creative. Further information about the IASS can be accessed under [www.iass-potsdam.de/en](http://www.iass-potsdam.de/en)

The IASS is looking for a PostDoc / Research Associate (f/m/x)

Reference Number: AQ-2022-01

The successful applicant will contribute to the group "Air Quality Modelling for Policy Advice (AQ)", working closely with the group leader Tim Butler under the guidance of scientific director Mark Lawrence.

The AQ group seeks a postdoctoral researcher to work on source attribution of ground-level ozone using and extending the TOAST system for ozone source attribution which was developed in the AQ group at IASS Potsdam and implemented in the Community Atmosphere Model with Chemistry (CAM-chem). The successful candidate will perform model simulations to develop source-receptor relationships for intercontinental transport of ozone and its precursors which will inform the work of the Task Force on Hemispheric Transport of Air Pollution (TF-HTAP) under the Convention on Long-Range Transboundary Air Pollution. Significant scope exists within this general framework for the successful candidate to pursue their own research interests on the topic of long-range transport of air pollution, in cooperation with other members of the AQ group at IASS Potsdam and the broader scientific community, under the general supervision of the group leader.

Tasks:

- Perform model simulations to develop source-receptor relationships for intercontinental transport of air pollution.
- Collaboration with project partners at the national, European, and international level.
- Support the communication of scientific results to relevant national and international bodies.
- Publication of scientific results in the international peer-reviewed literature.
- Model development activities in support of these tasks.

Key qualifications:

- PhD or equivalent in atmospheric science or another closely related discipline.
- Demonstrated ability to publish high quality research results in leading international peer-reviewed journals.

Other requirements:

- Experience with numerical modelling of atmospheric composition is an advantage.
- Deep knowledge of tropospheric ozone chemistry is an advantage.
- Prior experience with the Community Earth System Model is an advantage.
- Familiarity with international conventions and frameworks on air pollution is an advantage.
- Excellent spoken and written communication skills in English are required. Knowledge of German is an advantage.



- Competency in scientific programming with FORTRAN or C++ (or similar), scripting with Bash, Python, or R (or similar), and experience working with large complex datasets.

What we offer:

- The opportunity to work in a dynamic, multicultural, inter- and transdisciplinary research environment in the field of sustainability science in general, and atmospheric chemistry in particular.
- Excellent contact with a range of national, European, and international organizations, research institutes, and think tanks

This is a full-time appointment. The IASS supports efforts to achieve an equitable work-life balance by offering a variety of flexible work arrangements. A part-time role is possible in principle, by negotiation with the group leader. The position will be remunerated in accordance with the TVöD Bund salary scale (E13). The position is offered for a total of three years. For organizational reasons, an initial fixed-term contract will be offered until the end of 2022, with a subsequent extension planned from the beginning of 2023 leading to a total of three years of employment. A further extension beyond the initial three years may be possible, depending on the availability of project funds. The place of work is Potsdam.

The IASS seeks to promote gender equality and diversity. We therefore encourage applications from candidates of diverse backgrounds and genders. Applications submitted by severely disabled persons with equal qualification and aptitude will be given preferential consideration in accordance with the German Social Code (IX).

If you are interested in this position, we look forward to receiving your application, including a letter of motivation (one page only, please) a curriculum vitae and the names of three professional references. Ensuring equal opportunities is integral to the Institute's recruitment processes. We expressly welcome applications submitted without a photograph or other references to your nationality, ethnicity, or marital status. Please submit your complete application, combined in a single PDF file no larger than 5 MB, no later than 14.02.2022 to Cordula Granderath ([cordula.granderath@iass-potsdam.de](mailto:cordula.granderath@iass-potsdam.de)) using the Ref. No. given above. Please specify in your application how you became aware of this vacancy.

For further information and details on this position please contact Cordula Granderath ([cordula.granderath@iass-potsdam.de](mailto:cordula.granderath@iass-potsdam.de)).

By submitting your application, you consent to the processing of your personal data for the purpose of the application process. Your data will be deleted after a max. of six months. If we are interested in storing your application data beyond this based on your application profile, we will inform you about this and obtain your consent. For more information, see [https://www.iass-potsdam.de/sites/default/files/2019-10/GDPR\\_Job\\_Applications.pdf](https://www.iass-potsdam.de/sites/default/files/2019-10/GDPR_Job_Applications.pdf)

Travel costs cannot be reimbursed. Given the current pandemic situation, virtual interviews are envisaged.