



Urban air quality modelling

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.

Applications are sought for the position of

PhD Candidate (m/f)

Ref. No. AQ-2017-04

at IASS Potsdam, for a period of three years. The successful applicant will contribute to the work of a research group lead by Prof. Tim Butler, with a focus on numerical modelling of atmospheric chemistry. The successful applicant will investigate air pollution at the urban-to-regional scale, with a primary focus on the Berlin-Brandenburg region, and an emphasis on the production and evaluation of urban development and emission scenarios. This work will be carried out in close collaboration with stakeholders from the region. Additional, complementary research themes could include development of chemical budgeting and source attribution techniques, and improvement of model representation of the urban canopy and/or street canyons, depending on the prior experience and interests of the applicant.

Candidates are expected to have a masters degree (or be in the final stages of completing a masters degree) in an atmospheric science related field. Experience with scientific computing (including Linux, FORTRAN, and scripting languages such as perl, python, or R) is essential. Knowledge of atmospheric chemistry and prior experience with either regional-scale models such as WRF-CHEM or LOTOS-EUROS, or higher resolution models would be an advantage.

Candidates should be fluent in written and spoken English, and must have at least a good working knowledge of the German language. Candidates are expected to demonstrate a strong interest in transdisciplinary stakeholder engagement.

Are you interested in joining a dedicated, exciting team in a strongly trans-disciplinary environment?

Then please send us an application, including a statement of scientific background, interests and plans, a curriculum vitae, and names of 2-3 references, either in hard copy or by e-mail no later than October 15, 2017 to:

IASS, Institute for Advanced Sustainability Studies e.V.

c/o Cordula Granderath

Berliner Str. 130

14467 Potsdam

E-Mail: cordula.granderath@iass-potsdam.de

The position is available from November 2017, and will run for three years. The starting date may be delayed until February 2018. The position will be filled as a contract within the public service federal employment system (TVöD). The IASS particularly encourages applications from female researchers; handicapped applicants will be given preference in case of equal qualifications.