

2-year Postdoc Position in Northern Carbon Cycling at Augsburg University (Germany)

We're looking for a creative and self-motivated postdoc (100%, pay grade 13 TV-L) to join the research team of Prof. Buermann at Augsburg University. Buermann's research team carries out a broad spectrum of fundamental and applied research on the human impact on climate. It investigates climate variability and land surface-atmosphere interactions from regional to global scales, emerging ecosystem responses under climate change and also conducts biogeochemical (carbon cycle) studies (see Buermann's [webpage](#)).

Position:

This postdoc will work on a DFG-funded project, which is focused on identifying mechanisms responsible for the enhanced seasonal exchange of atmospheric CO₂ in the northern high latitudes. The position is offered for two years with the possibility of a one-year extension. Starting date is March 1st, 2023 (with some flexibility).

A key focus of this project will be examining climate and land cover dynamics in the northern latitudes and how these link to changes in the CO₂ amplitude at northern monitoring stations. The project will combine high-resolution satellite data (MODIS, Landsat) with modelling tools such as biosphere models and atmospheric transport inversions. The postdoc will also collaborate with the international research teams of Jun.-Prof. Forkel (TU Dresden), Dr. Thonicke (PIK Potsdam), Dr. Rödenbeck (MPI Jena), Prof. Friedl (Boston University) and Dr. Keeling (Scripps San Diego).

Specific duties of the position include:

- Analysis and evaluation of high-res. Satellite-based land cover data
- Synthesis of observational and model-based analysis
- Advancing understanding of carbon cycle science in the North
- Presentation of results at scientific meetings
- Publishing of results in scientific journals
- Possible mentoring graduate and undergraduate students

Required qualifications:

- PhD (or equivalent international degree) or enrolled in a PhD degree program (or equivalent international degree) at the time of application in any field of geo-, earth system or climate sciences

Preferred qualifications:

- Proficient coding skills in at least one of: R, Matlab, Python, Fortran, IDL
- Advanced knowledge of climate, plant ecology and/or the carbon cycle
- Both numerical and communication skills
- Evidence of ability to publish results in relevant journals
- Ability to work independently and as part of a larger team

For questions about the position please contact Prof. Buermann (wolfgang.buermann@uni-a.de). Augsburg University promotes the professional equality of women. Female candidates are explicitly

invited to submit their application. Augsburg University stands up for compatibility of family and professional life. For more information, please contact the woman's representative office. Severely disabled applicants are given preferential consideration in the event of equal qualification.

Please submit your comprehensive application (personal research abstract (1-2 pages), CV, study certificates, main publications, two reference contacts) as a single PDF-document by

February 15th, 2023

to

Prof. Dr. Wolfgang Buermann

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