

The Institute for Atmospheric Physics at Johannes Gutenberg University (JGU) Mainz invites applications for a

PostDoc position (m/f/d)



funded within the Transregional Collaborative Research Centre 301

TPChange – The Tropopause Region in a Changing Atmosphere

by the German Research Foundation (DFG, Deutsche Forschungsgemeinschaft).

Central coordination and observational data synthesis

Project leader: Prof. Peter Hoor

The overall goal of this infrastructure project (Z01) is twofold. The position offered here includes a campaign and technical coordination position. The second goal is to facilitate the scientific data use by harmonizing the field data emerging from the CRC, but also from other airborne measurement programmes.

During the first phase the PostDoc candidate is responsible for the technical preparation, integration, and coordination of the experimental activities. The technical and logistical organisation and scientific planning of the extensive experimental activities within CRC 301 will be coordinated by project Z01 and is expected to be done by the PD candidate. It notably includes the technical integration of a new sensor shuttle. It is expected that the candidate will be actively involved in the technical setup and construction of the shuttle in close cooperation with enviscope GmbH, who will be responsible for the certification. It also includes the technical coordination of in-situ measurements from the different groups aboard the Learjet 35A during the TPChange campaign to combine the new sensor shuttle for joint campaign planning.

The candidate will further act as central contact person to coordinate between the scientific needs and technical requirements involving all experimental groups involved in the field campaign. The flights need further to be synchronised with the ground-based corresponding measurements during the IOP as well as the HALO PHILEAS campaign, where coordinated flights with the Learjet are planned.

After the field campaign the candidate will be responsible for the consistent data post processing of the field data by synchronizing them to the meteorological support data using standard tools. This includes the campaign data, which will be generated in this CRC as part of the overall joint cross cutting approach as well as all airborne experimental data also from external sources, e.g., HALO, IAGOS, StratoClim. This effort constitutes a central element of CRC 301 phase I. A consistent link to meteorological fields, reanalysis data, and model output from the projects in Area C will facilitate the synergistic use of measurement data from different projects to put case-based measurements in a larger perspective.

Requirements

The ideal candidate holds a PhD in Meteorology, Physics, or a closely related discipline and has a strong background in experimental work as well as experience in planning and realization of field experiments. Knowledge in spectroscopic measurement techniques and testing or designing electro mechanical processes is appreciated. We expect the candidate to work in a team of experts requiring strong communication skills. Good English language skills are required, and basic programming skills (e.g., LabView, Igor, Python) are desirable.

Employment conditions

The position is offered for 4 years and the place of employment will be Mainz. The targeted starting date is 1 July 2021.

Applications and deadline

Please send applications with reference to the code Z01-PD2-JGU as one single pdf file to tpc_jobs@uni-mainz.de, including a motivation letter, CV, copies of relevant certificates, preferred starting date, and the names of at minimum two references.

Review of all applications will start on **1 June 2021** and will continue until the position is filled.
For further information, please contact Prof. Peter Hoor

TPChange offers a comprehensive and structured training for early career researchers. In addition to self-organised activities such as workshops, trainings and a guest program, the successful candidate will have the opportunity, if desired, to pursue international research visits. The consortium conducts an ambitious program to gradually enhance gender equality on all career levels.

JGU actively supports equality, diversity and inclusion, and as an equal opportunity employer, JGU explicitly encourages applications from women as well as from all others who will bring additional diversity to the university's research and teaching. Applicants with disabilities will be preferentially considered if suitably qualified.

We look forward to your application!

Notes on Data Protection

<https://www.verwaltung.personal.uni-mainz.de/files/2020/09/Datenschutz-BewerberInnen.pdf>