Postdoc Position (100% TV L E13) on Atmospheric Boundary Layer Research
for three years with possible further extension
to be filled at the Institute of Physics and Meteorology (IPM)
University of Hohenheim, Stuttgart, Germany

The objective of this postdoc position is to advance the understanding of momentum, mass, and heat transport in the unstable and stable atmospheric boundary layer (ABL) based on the unique sensor synergy of the Land-Atmosphere Feedback Observatory (see https://lafo.uni-hohenheim.de/en) at the University of Hohenheim. The observed turbulence profiles as well as surface and entrainment fluxes will be analyzed to investigate new relationships between fluxes and L-A system variables in dependence of the diurnal cycle, microscale circulations, transitions as well as the mesoscale and seasonal variability under cloud-free and cloudy conditions. The results shall culminate in new and unified parameterizations of L-A fluxes and turbulence including entrainment.

This research will be performed in cooperation with an international scientific team that includes among others, e.g., NOAA and NASA in the US, the GEWEX Global Land/Atmosphere System Study (GLASS, see www.gewex.org/panels/global-landatmosphere-system-study-panel), and the Local Land-Atmosphere Coupling (LoCo) Working Group of the World Climate Research Programme (see www.gewex.org/loco).

We are offering a postdoc position in an international research environment on a topic of cutting edge research. Candidates with substantial expertise and publications in ABL processes, the application of research lidar systems, and the analysis of their data will be preferred. As this is a long-term governmental position, your duties also include the performance of lectures.

We are committed to equality. The University of Hohenheim seeks to increase the proportion of underrepresented groups in research and education. With equal qualifications, preference will be given to candidates with disabilities. Please send your application documents electronically to elisabeth.ott@uni-hohenheim.de.

Prof. Dr. Volker Wulfmeyer
The Chair of Physics and Meteorology
Institute of Physics and Meteorology
University of Hohenheim
70599 Stuttgart, Germany