



The Environmental Physics group at the Centre for Applied Geoscience (University of Tübingen, Germany) studies turbulent atmospheric flows using small automatically operating unmanned aircraft systems (UAS) and ground-station networks. Our main interests are the turbulent energy and momentum exchange between the earth surface and the lower atmosphere (boundary-layer meteorology), the interaction of turbulent flows with wind turbines and orography, and aerosol particle transport in the lower atmosphere. We develop fast meteorological sensors (especially for our UAS), calibration methods and software for data analysis. Currently, we are looking for a researcher **PhD student**

Meteorologist, Physicist, Computer Scientist or Engineer

The position is embedded in the new research project **VALUAS** funded by the German Weather Service (**DWD**) in cooperation with the Hans Ertel Centre for Weather Research (**HErZ**). The overall goal of the project is the validation of remote sensing instruments (**LIDAR**) and the numerical weather model **ICON** operated by the DWD using our **UAS**.

The **tasks** for the position in the project include:

- performing flights with the research UAS on meteorological field campaigns
- maintenance and preparation of our UAS (with focus on autopilot system, data acquisition, fast response turbulence sensors, particle samplers)
- analysis of experimental and numerical meteorological data

This position requires a university degree in the field of atmospheric science, physics, electronics or informatics with a strong experimental focus and has already experience in:

- environmental measurement technology and sensors, Raspberry Pi, Arduino
- data analysis and statistics in atmospheric science and fluid dynamics
- UAS / model aircraft operation and control
- Linux and R or Python programming

The position is available from **1st January 2020** on and will be open until filled. Salary will be according to the German public service (75 % of E13 TV-L). Initially, the position is limited to 36 months but may be extended by a forth year (**Post-Doc** 100 % of E13 TV-L), after successful evaluation together with the DWD. The University seeks to raise the number of women in research and teaching and therefore urges qualified women academics to apply for these positions. Equally qualified applicants with disabilities will be given preference. Please send your application (including application letter, statement of research interests, CV, certificates) referring to announcement code '*umphy-2019-phd*' by email (**one PDF file only!**) to:

Dr. Andreas Platis (phone +49 7071 29 73121), andreas.platis@uni-tuebingen.de

The employment will be carried out by the central administration of the University of Tübingen.