

Scientist (m, f, div, n.a.) for the implementation of atmospheric observatories

The Leibniz Institute for Tropospheric Research is a research institute of the Leibniz Association and an internationally renowned institute in the field of aerosol and cloud research.

The Atmospheric Chemistry Department (ACD) is looking for an experienced and motivated scientist to set up and operate online mass spectrometric instrumentation at the following two atmospheric observatories within the European research infrastructure ACTRIS (www.actris.eu):

- Schmücke Cloud Observatory (SCO) near the city of Suhl, Thuringia, Germany
- Melpitz Research Station near Torgau, Germany

Main Tasks:

- Implementation of a suite of on-line mass spectrometers (ToF-ACSM-X, VOCUS-PTR-MS, VOCUS-NO₃-CIMS) to measure atmospheric composition in the gas and particle phases.
- Implementation of ACTRIS quality assurance (QA/QC) measures and standard operating procedures (SOP) for the metrics of the respective devices, or assist in their development if not already in place
- Implementation of workflows for data processing, data control and data transfer in accordance with the ACTRIS data center guidelines
- Operation of the equipment in accordance with ACTRIS guidelines and standard operating procedures
- Regular maintenance, quality control and calibration of the equipment both on-site and in the TROPOS ACD laboratories
- Regular validation and submission of the acquired data to the ACTRIS database
- Participation in ACTRIS intercomparison workshops at European topic centers providing support for the respective device
- Participation in ACTRIS-related and other events, including conferences, technical tutorials, workshops, etc.
- Support in preparation for and participation in ACTRIS-related intensive measurement campaigns at the observatories
- Analysis and interpretation of measurement data and preparation of scientific publications.

Requirements:

- PhD degree in discipline of the natural sciences, e.g. chemistry, physics or meteorology
- Knowledge and experience in online mass spectrometry (AMS, ACSM, PTR-MS, CIMS) and field campaigns
- Knowledge and experience in offline MS instrumentation (LC-MS, GC-MS) would be beneficial
- High intrinsic motivation, ability to work both independently as well as a part of a team, competent cooperation with international teams
- Strong organizational skills
- Very good knowledge of the English language, at least some basic German would be beneficial
- Valid EU driver's license and willingness to travel frequently to the observatory sites, including overnight stays (especially at SCO)
- Experience with data processing software such as IGOR, R, MATLAB, etc. including programming skills would be beneficial
- Background knowledge in atmospheric chemistry and physics would be beneficial
- For any questions, feel free contact Prof. Dr. Hartmut Herrmann (herrmann@tropos.de) or Dr. Dominik van Pinxteren (dominik@tropos.de for the SCO) or Dr. Laurent Poulain (poulain@tropos.de for Melpitz)

We offer:

- The opportunity to work in the Atmospheric Chemistry Department (ACD) of TROPOS, a vibrant international group of colleagues who will support you in further developing your career
- Fixed-term contracts of about 2 years, but not beyond the end of the ACTRIS-D implementation phase (July 31, 2026). Depending on available funding, an extension into the 10-year ACTRIS-D operational phase could possibly be offered in the future.

- An exciting workplace in the lively city of Leipzig with a multifaceted job in an interdisciplinary work environment and a variety of work-life balance offers as well as flexible working hours and daycare facilities

TROPOS and TROPOS ACD value the diversity of its employees and pursue the goals of equal opportunity. The institute aims to increase the proportion of women in research and therefore encourages qualified women to apply. People with severe disabilities have priority in hiring if they have the same aptitude, ability, and professional qualifications.

Please send your complete, informative documents in written or electronic form with the keyword: **ACD-Wiss** by **Friday, August 30th 2024**, exclusively electronically to only **bewerbung@tropos.de**.

By submitting the application documents by e-mail, the applicant agrees to the storage/processing of personal data in accordance with Art. 13 DSGVO for the purpose of selection for this job advertisement. The risks of sending documents electronically are hereby pointed out.

More information about TROPOS can be found on our website www.tropos.de.
