

Job Offer

An open position for a research assistant (EG 13 TV-L) in department 08 - Physics, Mathematics and Computer Science,

Institute for Atmospheric Physics - of the Johannes Gutenberg University, Mainz, offers a position to be filled at the earliest possible date. This is a training position intended to provide a post doctoral lecturing qualification ("Habilitation"). For this reason, the appointment is limited three years with possibility of a further three year extension.

The successful applicant shall provide teaching support to university professor Dr. Stephen Borrmann, head of the research group "Experimental Aerosol and Cloud Physics" at the Institute for Atmospheric Physics, as well as conducting experimental research on the chemical composition of aerosol and cloud particles. Participation in international aircraft measurement campaigns is necessary for this purpose. The key tool for the scientific work is the aircraft-borne aerosol particle mass spectrometer ERICA (for ERC Instrument for the Chemical composition of Aerosols), a unique instrument which was developed in the research group with the support of Professor Borrmann's ERC Advanced Research Grant. ERICA has already successfully operated aboard the high-altitude research aircraft M-55 "Geophysica" as well as on the DC-8 NASA aircraft conducting measurements in the upper troposphere/lower stratosphere at altitudes of up to 20 km. Due to the unique characteristics of ERICA the successful applicant can perform the independent and innovative scientific studies which are a prerequisite for the "Habilitation". As Prof. Borrmann holds a director position at the Particle Chemistry Department (Max Planck Institute for Chemistry) there is close scientific and technological cooperation with the MPI, particularly in the areas of aircraft borne experiments and aerosol mass spectrometry.

Teaching duties comprise the lectures, exercises, seminars, practical courses on a level which is typical for habilitation candidates. This also includes the independent instruction/guidance of students in the planning and implementation of scientific projects (bachelor's, master's and doctoral theses) as well as the application for external funds and resources.

Employment Requirements:

- Completed academic studies at a university or comparable institute of higher education
- A qualifying position corresponding to the position offered in physics, chemistry, meteorology/atmospheric sciences
- Following successful completion of collegiate studies, primary occupation in research demonstrated by a list of specialist publications showing principal and co-authorship corresponding to the requirements for a candidate's habilitation.
- Profound knowledge in the area of computer programming for the control of highly complex scientific instruments (e.g. LABVIEW, C++ etc.) as well as advanced programming and/or script languages such as MATLAB, IGOR for the evaluation and analysis of extensive data records.
- Excellent knowledge of English
- Experience in the preparation of scientific texts, documented by peer-review publications.
- Genuine interest to commit oneself to the complex requirements of a habilitation.

The Johannes Gutenberg University in Mainz is committed to increasing the number of women active in the scientific field and therefore encourages the application of women scientists.

Priority shall be given to suitable candidates possessing severe disabilities.

Please direct your written application containing all supporting information and documentation demonstrating employment prerequisites, by 15-08-2018, to

Dr. Stephan Borrmann, University Professor
Department 08 - Physics, Mathematics and Computer Science,
Institute for Atmospheric Physics Johannes Gutenberg-University, Mainz
55099 Mainz.