Within the **Boundary Layer Meteorology research group** at the Institute of Atmospheric and Environmental Sciences of the Goethe University Frankfurt we are searching for a candidate for a position of

Research Assistant (m/f/d)
(PostDoc)
(E 13 TV-G-U)

for 4 years, **starting from 01.01.2024 or as soon as possible.** The salary grade is based on the job characteristics of the collective agreement applicable to Goethe University (TV-G-U).

The Boundary Layer Meteorology group is a member of the Hans-Ertel-Centre for Weather Research, a virtual centre of 7 research groups, based at different German universities and research institutes, which have a close partnership with the German Weather Service (Deutscher Wetterdienst, DWD).

The successful candidate will be part of a team working in boundary layer and mountain meteorology with a focus on the development of innovative, scale-adaptive methods for parameterizing turbulence and clouds in the atmospheric boundary layer in numerical weather prediction models. The focus will be on the probabilistic representation of ABL convection in transitional regimes and intercomparison of ABL schemes. The development will be guided by large-eddy-simulation (LES) and the comparison to observations (e.g., from the recent FESSTVaL campaign at Lindenberg, or from the upcoming TEAMx field campaign). The successful candidate will contribute to the further development of our recently developed unified turbulence parameterization scheme, implementation of stochastic methods and evaluation of the unified ABL scheme.

We are looking for an enthusiastic, self-motivated person who likes to work in a team and has a graduate degree in science and a PhD in meteorology, physics, mathematics or related discipline, with profound knowledge of atmospheric dynamics.

We expect:
- Proven experience in modeling and analysis of atmospheric phenomena, preferably in the area of boundary layer and large-eddy simulation. Experience with physical parameterization, in particular turbulence or convection parameterization, and model evaluation using observations is highly desired
- Experience with stochastic physics or stochastic schemes in NWP or Earth System modelling would be a plus
- Strong communication skills and experience in publishing in peer-reviewed scientific journals and in presenting results at scientific conferences
- Strong organizational and programming skills
- Fluency in English (written and oral)

The successful candidate will be part of an active research group in a future-oriented research area with strong international ties and partnerships with research groups at other universities and the German Weather Service (DWD).

The Goethe University is committed to a policy of providing equal employment opportunities for both men and women alike, and therefore encourages particularly women to apply for the position/s offered. Individuals with severe disability will be prioritized in case of equal aptitude and ability.

Please send your application **by 01.12.2023** in one PDF file to Juerg Schmidli (schmidli@iau.uni-frankfurt.de) including a letter of interest, full CV, name and contact of a minimum two references, and copies of relevant certificates and grades (BSc and MSc Degrees).

The Johann Wolfgang Goethe University Frankfurt am Main is one of the largest universities in Germany with around 44,000 students and with about 5,700 employees. Founded in 1914 by Frankfurt citizens and since 2008 once again proud of its foundation status Goethe University possesses a high degree of autonomy, modernity and professional diversity. As a comprehensive university, the Goethe University offers a total of 16 departments on five campuses and 154 degree programs along with an outstanding research reputation. Furthermore, the Goethe University is part of the Group of Rhine-Main-Universities (RMU).