

28.09.2016

**Position announcement Nr. 2016-05 SFB/TRR 181-
T1, Lübken**



PhD student: Meso-scale energy cascades in the lower and middle atmosphere

The Leibniz Institute of Atmospheric Physics (IAP) is member of the Leibniz Association with research focus on the middle atmosphere. It closely cooperates with the University of Rostock and is part of their teaching program. The IAP is funded in equal parts from federal and state sources, has an annual budget of about 7 Mio Euro and employs about 85 people.

The Leibniz Institute of Atmospheric Physics (IAP) offers a 3-year position

PhD student (m/f)

available from now on until the end of 2019 in the department for optical soundings with the possibility for an extension. The salary is according to class EG 13 TV-L, Tarifgebiet Ost (66 %, max. 75 % when publishing an article in a peer reviewed journal). Only candidates can be considered who fulfill the requirements for temporal contracts according to § 2 WissZeitVG.

A new Collaborative Research Centre has been established to improve the understanding and modeling of the energy transfers in the atmosphere and the ocean. The IAP is engaged in three major projects. We offer a PhD student position with the following task:

Lidars and radars operated by IAP measure temperatures and winds quasi-continuously both in the mesosphere and in the upper troposphere at high temporal and vertical resolution. New facilities are being developed to cover also horizontal scales in the stratosphere and mesosphere from a few to several hundred kilometers. Based on these measurements, and by using available retrievals from satellite and aircraft measurements, mean data sets for horizontal and vertical wavenumber power spectra of winds and temperatures shall be composed as a benchmark for high-resolution models. If possible, also vertical momentum flux spectra shall be derived. The highly energized mesoscales in the mesosphere serve as a challenging testbed for the subgrid-scale closure to be developed with the modeling PhD subprojects.

Applicants have to possess a Diploma/Master in atmospheric physics or a neighboring field of science. Experiences in the field of data evaluation and mathematical statistics are of essential advantage.

The IAP offers an attractive working place near the Baltic Sea, with modern equipment, engagement in international research, participation in the professional pension system (VBL), and working conditions according to the tariff agreement on public services (TV-L).

The IAP supports a family-friendly human resource policy. It aims to increase participation of women where they are under-represented. Women are explicitly invited to apply. The IAP also aims to employ more handicapped persons. Applicants are invited to submit their complete files (cover letter, curriculum vitae, copy of certificates, possibly testimonies and references) referring to the code number **2016-05 SFB/TRR 181-T1 Lübken** until a suitable candidate is found, preferably in a single PDF document, to the

Leibniz-Institute of Atmospheric Physics
Personalabteilung/Frau Kurreck
Schlossstr. 6
18225 Kühlungsborn
email: Angelika Kurreck (kurreck@iap-kborn.de)

For the sake of costs, only those applications including back-ports will be sent back. Application and travel costs cannot be covered.

For further information, please contact
Prof. Dr. Franz-Josef Lübken

Email: luebken@iap-kborn.de
or inform yourself under www.iap-kborn.de.

Member of

