

PhD position, in the area of LES-/Boundary Layer Meteorology-modelling

The Karlsruhe Institute of Technology (KIT) and its Institute of Meteorology and Climate Research (Atmospheric Environmental Research, KIT/IMK-IFU) in Garmisch-Partenkirchen, Germany, invites applications to the open position of a

PhD studentship, in the area of LES-/Boundary Layer Meteorology-modelling.

The position is within the IMK/IFU's newly established Helmholtz Young Investigators Group dealing with scales of biosphere-atmosphere exchange and the enigmatic energy balance closure problem. Expected tasks include the application of LES to evaluate the fractional contribution of large-scale convective transport near the surface, and conduct simulated field experiments under controlled flow conditions.

We offer a multi-disciplinary, collaborative research environment with excellent research infrastructure and support, well connected to national and international programmes. Stipend and benefits will be according to the Collective Agreement for KIT Doctoral Students. Appointment is for a period of **three years**.

Professional requirements:

- Master degree (or equivalent) in atmospheric science, physics, environmental science or engineering, or a related field

Assets:

- Experience in computational fluid dynamics and proficiency in an advanced programming language (Fortran, C/C++) and Matlab or R
- Experience in analysing micrometeorological measurements
- Inclination for cross-disciplinary collaboration

Enquiries and applications including a short statement of motivation, CV, certificates, Master's thesis abstract, list of publications (if any) and contact information for two professional referees can be directed to

Dr. Matthias Mauder

Karlsruhe Institute of Technology
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Kreuzeckbahnstr. 19
82467 Garmisch-Partenkirchen, Germany
E-mail: (Matthias.Mauder@kit.edu).

Applications arriving before **November 15th, 2011** will be given full consideration. Intended starting date for this position is February 1st, 2012 or soon after.

For further information about KIT/IMK-IFU see <http://www.imk-ifu.kit.edu/>.

KIT strives to achieve gender balance at all levels of employment. We therefore particularly encourage female candidates to apply for this position. With appropriate qualifications, applications from persons with handicaps will be treated with preference.

PhD position, in the area of micrometeorological field experiment analysis

The Karlsruhe Institute of Technology (KIT) and its Institute of Meteorology and Climate Research (Atmospheric Environmental Research, KIT/IMK-IFU) in Garmisch-Partenkirchen, Germany, invites applications to the open position of a

PhD studentship, in the area of micrometeorological field experiment analysis.

The position is within the IMK/IFU's newly established Helmholtz Young Investigators Group dealing with scales of biosphere-atmosphere exchange and the enigmatic energy balance closure problem. Expected areas of work include the analysis of tower-based and airborne measurements in combination with ground-based remote sensing data to extract the principal scales of convective transport and their temporal evolution.

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Professional requirements:

- Master degree (or equivalent) in atmospheric science, physics, environmental science or engineering, or a related field

Assets:

- Experience in conducting and analysing micrometeorological field experiments (eddy-covariance and/or ground-based remote sensing), and proficiency in an advanced programming language (Fortran, C/C++) and Matlab or R
- Skills in statistical time series analysis
- Inclination for cross-disciplinary collaboration

Enquiries and applications including a short statement of motivation, CV, certificates, Master's thesis abstract, list of publications (if any) and contact information for two professional referees can be directed to

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Scientist/Post-doc position, in the area of LES-/Boundary Layer Meteorology-modelling

The Karlsruhe Institute of Technology (KIT) and its Institute of Meteorology and Climate Research (Atmospheric Environmental Research, KIT/IMK-IFU) in Garmisch-Partenkirchen, Germany, invites applications to the open position of a

Scientist/Post-doc, in the area of LES-/Boundary Layer Meteorology-modelling.

The position is within the IMK/IFU's newly established Helmholtz Young Investigators Group dealing with scales of biosphere-atmosphere exchange and the enigmatic energy balance closure problem. Expected research priorities include the implementation of an LES modelling scheme with special focus on near-surface processes in heterogeneous terrain.

We offer a multi-disciplinary, collaborative research environment with excellent research infrastructure and support, well connected to national and international programmes. Salary and benefits will be based on the Collective Agreement for the German Public Service Sector. Appointment is for an initial period of **three years** with the option for extension.

Professional requirements:

- Doctoral degree (Ph.D.) in atmospheric science, physics, environmental science or engineering, or a related field
- Experience in the application of computational fluid dynamics and proficiency in an advanced programming language (Fortran, C/C++) and Matlab or R
- Inclination for cross-disciplinary collaboration

We expect and support the successful candidate to build up a strong publication record.

Enquiries and applications including CV, list of publications, statement of research interests and contact information for three referees can be directed to

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Applications arriving before November 15th, 2011 will be given full consideration. Intended starting date for this position is February 1st, 2012 or soon after.

For further information about KIT/IMK-IFU see <http://www.imk-ifu.kit.edu/>.

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