Climate change and land use change have significant impacts on terrestrial ecosystems that society will have to cope with in the coming decades. At the Institute of Bio- and Geosciences - Agrosphere (IBG-3), our work contributes to an improved understanding and more reliable prediction of hydrological and bio-geochemical processes in terrestrial systems. We are part of the recently launched Integrated Greenhouse Gas Monitoring System (ITMS), which aims at an independent verification of Germany’s greenhouse gas budget through a network of measurement stations. We contribute surface-atmosphere fluxes of CO2 measured at eddy-covariance stations to this infrastructure; within the project FeaViTa we will evaluate the feasibility of contributing atmospheric CO2 concentrations from the same stations.

We are looking to recruit a

Research Assistant / Postdoc - Analysis of near-surface and atmospheric CO2 measurements

Your Job:
You will support the maintenance and data analysis of eddy-covariance measurements with focus on accurate CO2 concentrations and apply methods to derive mixing layer concentrations. This includes in particular:
- Calibration of gas analyzers
- Business travels within Germany, possibly to Sweden, the Netherlands and conferences
- Application, comparison and advancement of methods to derive mixing layer concentrations from near-surface concentration, flux and turbulence measurements
- Assessment of assumptions underlying these methods using a boundary-layer model and independent measurements

Your Profile:
• Masters with subsequent PhD degree in meteorology or a related earth, environment or natural science
• Pertinent expertise and competences/skills in the relevant areas greenhouse gas measurements and/or micrometeorology
• Programming skills, preferably in Python
• Strong English language skills for daily communication
• Driving license (European category B)

Our Offer:
We work on the very latest issues that impact our society and are offering you the chance to actively help in shaping the change! We support you in your work with:
• A large research campus with green spaces, offering the best possible means for networking with colleagues and pursuing sports alongside work
• Comprehensive training courses and individual opportunities for personal and professional further development
• Supervision and technical support in the above mentioned tasks
• Extensive company health management
• Ideal conditions for balancing work and private life, as well as a family-friendly corporate policy
• Flexible work (location) arrangements, e.g. partly remote work
• Targeted services for international employees, e.g. through our International Advisory Service

The position is limited to 26 months in 75% part-time employment (29,5 hours), with the possibility of a cost-neutral equivalent employment matching your family situation (part- or fulltime). Salary and social benefits will conform to the provisions of the Collective Agreement for the Public Service (TVöD-Bund) depending on the applicant’s qualifications and the precise nature of the tasks assigned to them.

In addition to exciting tasks and a collaborative working atmosphere at Jülich, we have a lot more to offer: https://go.fzj.de/benefits

We welcome applications from people with diverse backgrounds, e.g. in terms of age, gender, disability, sexual orientation / identity, and social, ethnic and religious origin. A diverse and inclusive working environment with equal opportunities in which everyone can realize their potential is important to us.