

Heidelberg University is a comprehensive university with a strong focus on research and international standards. With around 30,000 students and 8,400 employees, including numerous top researchers, it is a globally respected institution that is also of outstanding economic importance for the Rhine-Neckar metropolitan region.

The following position (TV-L E13, 100%) is to be filled at the Institute of Environmental Physics for a limited period of 2 years starting as soon as possible:

## **Scientific coordinator / postdoctoral scientist: New observations and modelling for wind energy applications**

The Institute of Environmental Physics conducts research on the topics atmospheric modeling and observations. We are looking for a postdoctoral scientists with interest in fundamental research on boundary layer meteorology tailored to the needs for wind energy. The positions are part of the exciting research and transfer project MiRadOr led by University Heidelberg with well-known European partners from research and globally leading industry partners for wind energy. Through MiRadOr, you will be at the forefront of developing knowledge and technology to help accelerate the expansion of renewable energy production through fundamental research in atmospheric physics, and you will gain an international network through the partners for prospects of a career in industry and/or research.

MiRadOr is based on a one-year long field campaign with remote sensing instruments in northern Germany and includes an intense observation period during summer where the science team will be in the field. As successful candidate, you will coordinate the research of the MiRadOr science team and industrial partners in close cooperation with the project leader Prof. Dr. Stephanie Fiedler. You will take a leading role for the reporting of findings to the consortium and the project funders in English and German. The MiRadOr project will use measurements and output from atmospheric models to assess stability metrics and boundary layer dynamics. Evaluations of the model results against observational datasets of different origin and format will be performed. The successful candidates will support the project through acquiring the knowledge needed for the internal and external communication, support the collection, transfer and management of MiRadOr measurement data, and has a key role for the project communication including outreach activities.

### **Your tasks:**

- You will manage the project and lead the communication of MiRadOr, i.e., ensure the timely deliverables through coordination and effective communication.
- You will lead the MiRadOr project office, i.e., you are responsible for the outreach of MiRadOr including the organisation of workshops and webinars, creating webpage content, and respond to internal and external inquiries.
- You will be responsible for supporting the field campaign including the intense observation period in summer in northern Germany through your coordination of the logistics for the campaign of the partners.
- You will acquire the necessary skills for scientifically supporting and communicating results from the project, e.g., a good understanding of boundary layer meteorology, atmospheric models and remote sensing measurements.
- You will support the reporting and presentation of results to the MiRadOr project partners in research and industry.
- Depending on your career goal, you can carry out cutting-edge research based on MiRadOr data including scientific publications and presentations at international scientific conferences.

### **Your profile:**

- You hold a PhD degree in physics, climate sciences, meteorology or a closely related field, preferably obtained within the last three years.
- You have an interest in atmospheric observations and/or modelling for the atmospheric boundary layer and wind energy applications.

- You have very good skills in project management and effective communication with audiences with diverse backgrounds.
- You are familiar with scientific research practices of environmental physics e.g., remote sensing techniques, atmospheric modelling, field campaigns, and/or wind energy simulations.
- You have achieved very good results in education and training.
- You are enthusiastic and enjoy structural work as needed for project management, and you want to further develop your skills in the sense of lifelong learning.
- You have very good oral and written English and German skills and the willingness for inter-/national travel to collaborators and events of MiRadOr.

**We offer:**

- An exciting research project at the forefront of measurement techniques for wind energy applications based on new fundamental research for relevant meteorological conditions.
- an internationally active research team on climate and aerosols using both observations and modelling based in Heidelberg.
- a young, motivating and dynamic research team in a stimulating and internationally recognised environment for excellent research.
- a modern research infrastructure, offers for additional training support and mentoring programs for a successful career at Heidelberg University.
- the appropriate financial framework and access to resources for our joint successes.
- freshly refurbished working rooms with modern computers and laboratories for experimental field work in environmental physics.
- a life in a beautiful historic city with diverse offers for leisure and sport, good traffic connections, and a vibrant international scene.

The position is not divisible due to the requirements of deliverables according to project plans. Depending on qualifications, remuneration will be up to pay grade E13 TV-L.

We look forward to receiving your electronic application with the usual documents (CV, motivation letter, certificates, etc.) in a single PDF file by e-mail to [job\\_application@iup.uni-heidelberg.de](mailto:job_application@iup.uni-heidelberg.de) stating the job identifier "IUP-2025-PD2". The start of MiRadOr is planned for 1 April 2025. A first cutoff date for applications is therefore 31 March 2025 with a first round of interviews shortly thereafter. The start date of the position is flexible.

Heidelberg University stands for equal opportunities and diversity. Information on job advertisements and data protection can be found at [www.uni-heidelberg.de/stellenmarkt](http://www.uni-heidelberg.de/stellenmarkt).