

# Institut für Energie- und Umwelttechnik e. V.

Bliersheimer Str. 58 - 60  
47229 Duisburg, Germany



*Department Filtration & Aerosol Research*

## **J O B   O P E N I N G**

The Institute of Energy and Environmental Technology e. V. (IUTA) is a private non-profit research institute in Duisburg, Germany, and adjunct institute of the University of Duisburg-Essen. The department Filtration & Aerosol Research deals with a wide range of research questions in the fields of Air Quality, Filtration and Aerosol Technology.

In the course of a research project funded by the EU under the Horizon Europe program, possibilities for reducing particulate emissions from the brakes of rail vehicles and buses are to be investigated. For this purpose, the size distribution and composition of the emitted particles are to be determined on a dynamometer brake test bench. An appropriate aerosol sampling system, including an enclosure for the brake, needs to be developed and constructed. This setup will then be used to perform experimental test series at an external test bench operator in order to evaluate the efficacy of the brake dust mitigation measures developed by other partners within the project. In addition to the development of the setup and the execution of the measurements, the data evaluation as well as the communication with the European project partners are part of the range of tasks of the position to be filled.

Within the framework of the project, there is an immediate vacancy for a

### **Research Assistant (m/f/d)**

to be filled.

The following requirements shall be met for a successful application:

- University degree (M. Sc. or equivalent) in engineering (ideally mechanical or automotive engineering) or a natural science
- Experience in aerosol sampling and measurement and/or brake dust analysis
- Proficient use of common software tools for data analysis (e.g. Excel, MATLAB, R, Origin)
- Very good knowledge of English and German language

We offer you the opportunity to work in a committed, interdisciplinary team of scientists in a dynamic and promising field of research. The full-time position is initially project-related and limited to max. three years. The salary is based on the respective qualification and experience in accordance with EG 13 TV-L. In cooperation with the University of Duisburg-Essen, a doctorate may also be possible.

IUTA strives to increase the proportion of women in areas in which women are underrepresented and therefore invites applications from qualified women. The application of suitable handicapped persons or persons with equal rights in the sense of §2 Abs. 3. SGB IX are also explicitly desired.

Please send your detailed application by 15 June 2022 at the latest exclusively by email to Dr. Christof Asbach (asbach@iuta.de).