The Department of Aerodynamics offers a scientific position at the large-scale convection experiment “Barrel of Ilmenau” for a:

**PhD candidate / Junior researcher (f/m/d).**

The position is dedicated to finish the DFG research project “Thermal convection at high aspect ratio: The local distribution and the dynamics of dissipative processes”. It is a non-permanent one with a duration of 12 month (additional 6 month are possible). The announced position includes experimental work, data analysis and publication of the data in scientific journals. The salary is set according to the rules of the public sector and depends on the personal qualification (about 50 k€/a). The position will focus on independent, self-governed measurements of the thermal dissipation rate in turbulent thermal convection, and the candidate may expect an ambitious, but also a versatile and exciting work in an internationally collaborating team.

**Your tasks**

- Running experiments in the large-scale convection experiment „Barrel of Ilmenau”,
- Conducting measurements of the thermal dissipation rate using a unique temperature gradient probe,
- Analysis and scientific interpretation of the data,
- Representation of the work in international journals and at congresses,
- Supervision of Bachelor and Master students.

**Your profile**

For being part of the selection process is needed:

- A scientific University Master or Diploma degree in Physics or Engineering,
- Excellent skills in experimental work and measurement technique,
- The ability to present the results of the research in scientific journals or at conferences.

Following competences are desirable:

- German language ability, the communication with the technical staff happens in local language,
- The ability and the willingness to teach students,
- The willingness to gain skills outside your specific field.

Please provide evidence of the qualifications required for the job by certificates and references.

The job interviews will presumably take place in December 2022.
We offer:

From individual advancement with a wide range of continuing education opportunities to a variety of health and recreational offerings, you can expect an appreciative working environment at a renowned university at TU Ilmenau. In addition to an attractive, family friendly working hour’s model, you will also benefit from advantages such as the use of the dining halls of the Studentenwerk Thüringen, as well as participation in several attractive sport offers from the university owned sport centrum.

For further information please contact Dr. Ronald du Puits, Email: ronald.dupuits@tu-ilmenau.de.

Technische Universität Ilmenau | Dezernat für Personal und Recht | Postfach 10 05 65 | 98684 Ilmenau