Technische Universität Berlin offers an open position:

**Research Assistant - salary grade E 13 TV-L Berliner Hochschulen**

under the reserve that funds are granted - part-time employment may be possible

**Faculty V - Institute of Fluid Dynamics and Technical Acoustics/ Laboratory for Flow Instabilities and Dynamics**

**Reference number:** V-276/19 (starting at 01/08/19 / limited until 31.07.2022 / closing date for applications 24/05/19)

**Working field:** Research work in the BMWI-funded Project „Entwicklung von Vorhersagemodellen zur Flammenstabilitätsanalyse“ within the collaborative project „Robuste Turbomaschinen für den flexiblen Einsatz, RoboFlex“.

The occurrence of flame instabilities poses great challenges for the development of future highly efficient and clean combustion technologies in gas turbines. The aim of this project is the development of predictive models for flame instabilities. RANS and LES simulations of the reacting flows as well as model approaches from linear stability theory are used. On this way fundamental research on flame and flow instabilities is carried out. This is a joint project with the gas turbine manufacturer MAN and ample collaboration is expected.

You will be part of a research team working on different flow and flame dynamic problems based on experiments, CFD and analytics. The contract will be assigned for 3 years first. The project provides opportunity for a dissertation but the position is also suitable for PostDocs.

**Requirements:**

- Successfully completed university degree (Master, Diplom or equivalent) in phys. engineering, mechanical engineering, aerospace engineering, energy and process engineering and related subjects
- Excellent knowledge of fluid mechanics, combustion, and acoustics
- Excellent knowledge in numerical simulation of thermo-fluids
- Knowledge about linear stability theory
- Driven and goal-oriented team player
- Excellent command of the English language in oral and written form is expected

Please send your application with the **reference number** and the usual documents preferably by email to office@fd.tu-berlin.de or in writing to Technische Universität Berlin - Der Präsident - Fakultät V, Institut für Strömungsmechanik und Technische Akustik, FG Dynamik instabiler Strömungen, Prof. Dr. Oberleithner, Sekr. HF 1, Müller-Breslau-Straße 8, 10623 Berlin.

To ensure equal opportunities between women and men, applications by women with the required qualifications are explicitly desired. Qualified individuals with disabilities will be favored. The TU Berlin values the diversity of its members and is committed to the goals of equal opportunities.

Please send copies only. Original documents will not be returned.

The vacancy is also available on the internet at http://www.personalabteilung.tu-berlin.de/menue/jobs/