



With more than 16,000 students and 3,800 employees, the **Technische Universität Braunschweig** is one of Germany's leading institutes of technology. It stands for strategic and performance-oriented thinking and acting, relevant research, committed teaching, and the successful transfer of knowledge and technologies to the economy and society. We consistently advocate for family friendliness and equal opportunities.

Our research focuses are mobility, engineering for health, metrology, and city of the future. Strong engineering and natural sciences are our core disciplines. These are closely interconnected with economics, social and educational sciences and humanities.

Our campus is located in the midst of one of the most research-intensive regions in Europe. We work successfully together with over 20 research institutions in our neighborhood as we do with our international partner universities.

Starting from [*date/the earliest possible date*], the [*facility*] is looking for a

Research Associate / Doctoral Candidate (m/f/d) in the field of “optimization of data exchange between aircraft cabin and airport during the turn-around process” (EG 13 TV-L, full-time/part-time)

The position is to be filled on a fixed-term basis for an initial period of 2 years. The successful applicant will be given the opportunity to pursue a doctorate.

Aviation industry is facing several challenges in the upcoming years. All stakeholders of the air traffic system must step up efforts to reach the political and social agreed and required objectives to limit the impact of aviation on climate change. The Institut für Flugführung (IFF) is tackling some of these challenges. For example, a large Air Traffic Simulation environment and an aircraft cockpit and cabin simulator has been set up in recent years. This simulation environment will be enhanced gradually with additional (hard- and software) modules and can be used for different research topics. One research topic at IFF is the research and assessment of the data exchange between different stakeholders involved in the turn-around process (the process that takes place between a landing of an aircraft and its subsequent departure). Such process optimizations have the primary goal to enhance the air traffic system with its current aircraft fleet mix to achieve emission savings as quick as possible, while keeping the current level of safety and capacity in the running system. Within the national funded and already running project “INTACT” the IFF works with other universities and industrial partners on the processes and interfaces between multiple stakeholders on an airport to achieve time and emission savings in an environment with increasing complexity and challenges.

Your tasks

- You will carry out research in the area of sustainable aviation with special focus on process optimization of aircraft operations in the turn-around process.
- You will apply for and work on research projects.
- You will publish research findings and participate in national and international conferences.
- You will be involved in teaching at the University (preparation and implementation of courses as well as supervision of students' work).

Your Qualifications

- You have a degree (Master's or equivalent) in aviation, civil engineering, electrical engineering, computer sciences or similar.
- You have very good knowledge of the German and English language.
- You have experience in aviation or are willing to learn about processes in aviation
- You are flexible, can perform under pressure and work well in a team.
- You are aiming for a doctorate.

We offer

- Work on exciting future-oriented research topics in an inspiring work environment as part of the university community
- A vibrant campus life in an international atmosphere with lots of intercultural offers and international cooperations
- Pay in accordance with the collective agreement TV-L (a special payment at the end of the year as well as a supplementary benefit in the form of a company pension, comparable to a company pension in the private sector) including 30 days' vacation per year
- Flexible working and part-time options and a family-friendly university culture, awarded the "Family-friendly university" audit since 2007
- Special continuing education programs for young scientists, a postdoc program, as well as other offerings from the Central Personnel Development Department and sports activities.

Further notes

We welcome applicants of all nationalities. At the same time, we encourage people with severe disabilities to apply. Applications from severely disabled persons will be given preference if they are equally qualified. Please attach a proof of disability to your application. We are also working on the fulfilment of the Central Equality Plan based on the Lower Saxony Equal Rights Act (*Niedersächsisches Gleichberechtigungsgesetz—NGG*) and strive to reduce under-representation in all areas and positions as defined by the NGG. Therefore, applications from women are particularly welcome in this case.

The personal data will be stored for the purpose of processing the application. By submitting your application, you agree that your data may be stored and processed electronically for application purposes in compliance with the provisions of data protection law. Further information on data protection can be found in our data protection regulations at <https://www.tu-braunschweig.de/datenschutzerklaerung-bewerbungen>. Application costs cannot be reimbursed.

Questions and Answers

For more information, please call Dr. Thomas Feuerle on +49 (0) 531 391-9812.

Deadline for applications is 31-March-2024

Are you interested? Please send your application preferably via email to t.feuerle@tu-braunschweig.de

or via mail to

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