



Technische Universität Berlin offers an open position:

## Research Assistant - salary grade E13 TV-L Berliner Hochschulen

part-time employment may be possible

**Faculty V - Institute of Engineering Design, Micro and Medical / Chair of Engineering Design & Product Reliability**

**Reference number:** V-36/24 (starting at the earliest possible / until 31/12/2026 / closing date for applications 23/02/24)

### Working field:

- Collaboration in the UNISELECT research project with tasks in the field of flight mechanics and aeroelasticity
- Extension and integration of software modules for the UNICADO software tool
- Analysis of the applicable regulations regarding the wing structures and the associated controllability and stability criteria
- Analysis of aircraft designs with regard to the aeroelastic behaviour of the lift surfaces
- Evaluation of possible technologies and feasible configurations for maximally efficient long-haul vehicles
- Development of models for the aeroelastic analysis of lifting surfaces and their evaluation with regard to stability and controllability criteria
- Carrying out sensitivity analyses of aircraft designs with regard to the aeroelastic deformation of the lifting surfaces

### Requirements:

- Successful completion of a scientific university degree (Master, Diplom or equivalent) in aerospace engineering or a related field of study
- Very good knowledge in the field of flight mechanics and aeroelasticity, especially in the areas of modelling, flight simulation and flight performance
- Knowledge in the field of aircraft design
- Experience in the field of aircraft certification is an advantage (CS-23/CS-25)
- Very good programming skills in the design and analysis programs MATLAB/SIMULINK and experience in the practical use of these tools
- Very good programming skills in C/C++ and/or Python or willingness to acquire these independently
- Ability to work in a team, high self-motivation, project experience and an independent way of working with high degree of self-organisation
- Good command of German and/or English required; willingness to learn either English or German is expected

Please send your application, stating the **reference number**, with the usual documents (summarized in a PDF document, max. 5 MB) **preferably by e-mail to Prof. Dr. Silvestre via christine.balder@tu-berlin.de**.

By submitting your application via email you consent to having your data electronically processed and saved. Please note that we do not provide a guaranty for the protection of your personal data when submitted as unprotected file. Please find our data protection notice acc. DSGVO (General Data Protection Regulation) at the TU staff department homepage: [https://www.abt2-t.tu-berlin.de/menue/themen\\_a\\_z/datenschutzerklaerung/](https://www.abt2-t.tu-berlin.de/menue/themen_a_z/datenschutzerklaerung/) or quick access 214041.

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.

Technische Universität Berlin - Die Präsidentin - Fakultät V - Institut für Luft- und Raumfahrt, Prof. Dr. Silvestre, Sekr. F 5, Marchstraße 12-14, 10587 Berlin

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

