

In May last year, a Research Training Group was started to research the field of unmanned air transportation. Advanced Air Mobility (AAM) is poised to transform urban mobility with emission-free air taxis, addressing challenges like congestion and complex topographies. Enabled by advances in electric and hydrogen propulsion, AAM demands secure integration with intelligent air and ground systems for societal acceptance. The RTG AirMetro at TUD Dresden University of Technology – an interdisciplinary team of ten experts - fostering interdisciplinary research spanning engineering, socio-technical analysis, and optimized transport networks. For TUD diversity is an essential feature and a quality criterion of an excellent university. Accordingly, we welcome all applicants who would like to commit themselves, their achievements and productivity to the success of the whole institution.

The **Research Training Group 2947 „AirMetro“** is seeking to employ a student as

Student Assistant (m/f/x) (10h/week)

starting **as soon as possible**. The position is limited until March, 31, 2026. The period of employment is governed by the Fixed Term Research Contracts Act (Wissenschaftszeitvertragsgesetz – WissZeitVG) as well as the Higher Education Act in the Free State of Saxony (Sächsisches Hochschulgesetz – SächsHSG) in conjunction with the TdL guidelines (collective bargaining association for the German federal states) for Student Assistants and Research Assistants dated February 28, 2024. The contract duration and weekly hours can be adapted according to your wishes.

Tasks: academic support, esp.

- support in the integration of drone systems
- assist in payload (sensors, camera, communication) integration on drones
- preparation of hardware equipment
- maintenance of flight logs

Requirements:

- student enrolled at a college/ university
- knowledge of electronic hardware
- willing to work on site
- very good knowledge of English
- reliable way of working
- interest in flight controls (Pixhawk hardware, PX4 autopilot software), experience with robotics
- (ROS2), Python or C++ language are helpful

We offer:

- hands-on experience in flight tests, flight demonstrations and data acquisition
- work in a multidisciplinary team
- hands-on experience with advanced research equipment
- make drones fly!

The RTG AirMetro at TU Dresden – an interdisciplinary team of ten experts - fostering interdisciplinary research spanning engineering, socio-technical analysis, and optimized transport networks. It conducts research in the field of urban mobility with emission-free air taxis in order to change and overcome challenges such as traffic congestion and complex topography.

We welcome applications from candidates with disabilities. If multiple candidates prove to be equally qualified, those with disabilities or with equivalent status pursuant to the German Social Code IX (SGB IX) will receive priority for employment.

Please submit your detailed application with the usual documents by **February 17, 2025** (stamped arrival date of the university central mail service or the time stamp on the email server of TUD applies), preferably via the TUD SecureMail Portal <https://securemail.tu-dresden.de> by sending it as a single

pdf file to airmetro@tu-dresden.de or to: **TU Dresden, RTG 2947 "AirMetro", Herrn Prof. Hartmut Fricke, Helmholtzstr. 10, 01069 Dresden, Germany.** Please submit copies only, as your application will not be returned to you. Expenses incurred in attending interviews cannot be reimbursed.

DRESDEN
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Reference to data protection: Your data protection rights, the purpose for which your data will be processed, as well as further information about data protection is available to you on the website: <https://tu-dresden.de/karriere/datenschutzhinweis>.