



**Technische Universität Berlin**



Technische Universität Berlin offers an open position:

### **Student assistant (80 hours per month)**

**Fakultät IV: Elektrotechnik und Informatik, Institut für Technische Informatik und Mikroelektronik, FG Multi-Roboter Systeme**

**Reference number:** IV-SB-0038-2025 (starting at the earliest possible / immediately for 2 years / closing date for applications 21/05/25)

#### **Working field:**

Supporting activities under supervision in the field of multi-robot systems in the project “Emmy Noether 2. Teilabschnitt”:

- preparatory and supporting work in the Programming in Python/C++/ROS 2 within our open-source research testbed for flying robot swarms (60%).
- support in the execution of flight experiments with flying robot teams (20%)
- preparatory and supporting work in the embedded programming in Rust/C for the firmware of the robots (10%)
- within given specifications and criteria assistance in the validation of new planning and control algorithms for collaborative flying robot teams (10%)

#### **Requirements:**

Must:

1. very good programming skills in Rust, Python, or C++
2. good mathematical basics (linear algebra and calculus)
3. good written and spoken English skills

Optional criteria:

1. fundamentals of artificial intelligence / machine learning
2. basics of control engineering / robotics
3. experience with modelling and control of flying robots
4. experience with embedded systems (Arduino, STM32, or similar)
5. experience with the Robot Operating System (ROS)
6. enthusiasm for the research topic and the desire to participate in a research group

**Party responsible for specialist area / point of contact for job posting:** Prof. Dr. Wolfgang Hönig

**Period of employment:** immediately for 2 years

**Apply to:** office@mrs.tu-berlin.de

Please submit your written application including cover letter, your CV, certificate of enrollment, and where applicable, current transcript of records, with the reference number to the place of employment indicated above.

In the interest of promoting equality opportunities for men and women, applications from women with suitable qualifications are particularly encouraged.

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

