



Technische Universität Berlin



Technische Universität Berlin offers an open position:

Student assistant (40 hours per month)

Fakultät VI: Planen Bauen Umwelt, Institut für Bauingenieurwesen, Systemtechnik baulicher Anlagen

Reference number: VI-SB-0022-2025 (starting at the earliest possible / limited to 19.01.2029 / closing date for applications 18/06/25)

Working field:

Context:

Participation in the DFG funded project 'The robotic backbone of robotized construction (FOR5672) with the goal to develop digital solutions to support planning and simulating robotic construction work. You will support the research and innovation activities conducted by the TU Berlin.

Work Tasks:

In particular, we expect the candidate to support research into robotic simulation and the development of simulation environments of robotic construction sites in the robot simulation software Gazebo.

- Modeling of Construction Sites in Gazebo (50%)
 - Support of Simulation Experiments coupling discrete event simulations with the Gazebo environment (25%)
 - Representation of the experimental results for scientific publications (25%)

Requirements:

- excellent English language skills
 - software development skills

Additionally, candidates with one or more of the following skills will be preferred during the selection process of the candidate:

- software development skills in the areas of Building Information Modeling and Digital Building Twins
- knowledge in Python development, if possible with the simpy package
- skills and background in robotic simulation, ideally with using Gazebo or a similar platform

Party responsible for specialist area / point of contact for job posting: Prof. Timo Hartmann

Period of employment: immediately limited to 19.01.2029

Apply to: timo.hartmann@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/>

