Technische Universität Berlin

Technische Universität Berlin offers an open position:

Student assistant (40 hours per month)

Fakultät V: Verkehrs- und Maschinensysteme, Institut für Maschinenkonstruktion und Systemtechnik, Cyber-Physical Systems in Mechanical Engineering
Reference number: V-SB-0063-2025 (starting at the earliest possible / limited until 02.04.2026 / closing date for applications 11/06/25)

Working field:

Support in the DFG-funded Special Priority Program SPP 2353: "DIRC - Designing complex behaviour novel pathways for assisting design based on dynamics-informed machine learning in structural mechanics":

- Support with the implementation of Python helper routines for PyReCo python library (40%)
- Creative support for representing research results: scientific plots, schematics, vector graphics, videos (30%)
- Support with the documentation of data structures, Python code and AI training runs (20%)
- Support with structuring of projects using GitLab (10%)

Requirements:

Must:

- Proven very good programming skills in OOP, Python as well as profound knowledge of the libraries NumPy, Pandas, Jupyter-Notebook, Matplotlib*
- Experience in data processing (eg. Pandas dataframes, Numpy Arrays) and visualisation*
- Experience with LateX, Tikz and InkScape
- Very good written and spoken English skills
  * Proof of expertise through a public GitHub repository, shared Jupyter notebooks or other relevant code samples or references

Can:

- Basic knowledge of networks and handling sequential data
- Experience in working with Git
- Experience in test-driven development, e.g. with the unit testing framework unittest

We offer:

- An inclusive and appreciative working atmosphere in a committed, international, and diverse team
- Scope for your own ideas
- Compatibility of family and career through flexible working hours and possibility of working from home

Party responsible for specialist area / point of contact for job posting: Prof. Dr.-Ing. Merten Stender
Period of employment: immediately until the 02.04.2026
Apply to: yamina.roost@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/

Zertifikat seit 2008
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