



Technische Universität Berlin offers an open position:

Student assistant (60 hours per month)

Fakultät IV: Elektrotechnik und Informatik - Institut für Softwaretechnik und Theoretische Informatik - FG Big Data Engineering (DAMS)

Reference number: IV-SB-0014-2025 (starting at the earliest possible / 2 years / closing date for applications 20/03/25)

Working field:

The DAMS Lab research group is looking for a student assistant (d/m/w) to join the team and help with group-internal prototype development and experiments in the context of system-oriented research on data and machine learning (ML) systems for the end-to-end data science lifecycle from data integration, cleaning, and preparation, over efficient and scalable model training, to model debugging and deployment. The responsibilities of the student employee include:

- Open-source contributions to group-internal ML systems on high-level abstractions, compilation and runtime techniques, tests, as well as peripheral tools (APIs, system internals, and tools) [60%]
- Implementation of data analysis and ML pipelines developed at the chair (use cases, primitives, and applications from various domains, including health care and earth observation) [20%]
- Experimental evaluation of end-to-end ML pipelines, system components, and various baselines [20%]

Requirements:

Must-have criteria:

- Interest and basic understanding of data management, applied machine learning, compiler construction, distributed systems, and software engineering (at least two)
- Good knowledge of German and/or English required; willingness to acquire the respective missing language skills

Desirable criteria:

- Programming experience in Python, Java, and C++ (at least two); Additional experience with R and shell scripts
- Basic experience with version control systems (especially git) and open-source development workflows
- Basic knowledge of conducting experimental evaluations at system and component level
- Ability to communicate and work in a team, independent working style, high motivation

Party responsible for specialist area / point of contact for job posting: Prof. Dr. Böhm
(matthias.boehm@tu-berlin.de)

Period of employment: 2 years

Apply to: jobs@dams.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/>

