



Research assistant - salary grade E 13 TV-L Berliner Hochschulen - 1st qualification period (PhD candidate)

part-time employment may be possible

Faculty IV - Electrical Engineering and Computer Science, Berlin Institute for the Foundations of Learning and Data (BIFOLD) / Big Data Engineering (DAMS)

Reference number: IV-484/25 (starting at 01/12/25 / for 5 years / closing date for applications 21/11/25)

About us:

The group "Big Data Engineering" (DAMS Lab), headed by Prof. Dr.-Ing. Matthias Böhm, conducts teaching and system-oriented research in the area of data management 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.

Your responsibility:

The DAMS Lab research group is looking for a research associate (d/m/w) to join the team with a special focus on system infrastructure for data-centric machine learning pipeline sand their efficient and scalable execution in local and distributed environments. Topics of interest include:

- Language abstractions for data-centric machine learning (ML) pipelines
- Efficient training and inference of Large Language Models (LLMs)
- Compilation techniques for linear algebra programs
- Runtime kernels and parallelization strategies for linear algebra programs
- ML system internals like memory management and I/O
- Support for heterogeneous hardware accelerators
- Teaching tasks

Your profile:

- Successfully completed academic university degree (master's degree, diploma or equivalent) in Computer Science or a related field of study. We are also open to domain-specific backgrounds if there is a willingness to close any gaps in the necessary CS background.
- Strong background in the areas of data management, applied machine learning, distributed systems, and software engineering
- Programming experience in Python and Java (mandatory) as well as C/C++ (advantage)
- The ability to teach in German and/or in English is required; willingness to acquire the respective missing language skills
- Ability to communicate and work in a team, independent working style, high motivation is desirable
- Basic experience in research methods and scientific writing is desirable
- Experience in teaching and didactic competence is an advantage

How to apply:

Please send your application with the **reference number** and the usual documents (Cover Letter, CV, transcripts, degrees; in one file max. 10 MB) only via email to jobs@dams.tu-berlin.de.

By submitting your application via email you consent to having your data electronically processed and saved. Please note that we do not provide a guaranty for the protection of your personal data when submitted as unprotected file. Please find our data protection notice acc. DSGVO (General Data Protection Regulation) at the TU staff department homepage: https://www.abt2-t.tu-berlin.de/menue/themen_a_z/datenschutzzerklaerung/.

To ensure equal opportunities between women and men, applications by women with the required qualifications are explicitly desired. Qualified individuals with disabilities will be favored. The TU Berlin values the diversity of its members and is committed to the goals of equal opportunities. Applications from people of all nationalities and with a migration background are very welcome.

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

