



Technische Universität Berlin



Technische Universität Berlin offers an open position:

Research Assistant - salary grade E13 TV-L Berliner Hochschulen

part-time employment may be possible; under the reserve that funds are granted

Faculty IV - Institute of Commercial Information Technology and Quantitative Methods / Scalable Software Systems

Reference number: IV-710/24 (starting at 01/03/25 / until 28/02/27 / closing date for applications 31/01/25)

Working field:

Based on the donation of an industry partner, this project will study and prototypically implement mechanisms for increasing efficiency of serverless computing platforms. In particular, the project will study unikernel-based runtimes, strategic placement of functions, function fusion, and request queueing with the goal of improving memory efficiency and shaving off load peaks. Tasks in this position include among others: software prototyping, experimenting with large-scale software systems, publishing and presenting research results.

Requirements:

- Successfully completed university degree (Master, Diplom or equivalent) in computer science of closely related subject with very good grades
- English C1 level or equivalent and willingness to learn German if not already available. Knowledge of German is beneficial
- In-depth knowledge and experience with distributed software systems and Docker
- Excellent programming skills in at least one of the following programming languages: Java, Kotlin, Go, C++

Desirable:

Beyond these experience with serverless computing platforms (particularly Knative), Kubernetes, unikernels, and OS-level programming as well as advanced German skills

Please send your application, quoting the **reference number**, with the usual documents (in one PDF document, max. 5 MB) exclusively by e-mail to **db@3s.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 guarantee 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/datenschutzerklaerung/ or quick access 214041.

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.

Technische Universität Berlin - Die Präsidentin - Fakultät IV, Institut für Wirtschaftsinformatik und Quantitative Methoden, FG Skalierbare Softwaresysteme, Prof. Dr.-Ing. Bermbach, Sekr. EN 17, Einsteinufer 17, 10587 Berlin

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

