



Technische Universität Berlin



Research Assistant - salary grade E13 TV-L Berliner Hochschulen

part-time employment may be possible

Faculty V - Mechanical Engineering and Transport Systems, Institute of Machine Tools and Factory Management / Quality Science

Reference number: V-476/25 (starting at 01/03/26 / limited until 31/03/2027 / closing date for applications 14/11/25)

Your responsibility:

- Participation in the research project "Batterypass-ready" focusing on the development of a test environment for Digital Product Passes (DPP) in accordance with the EU Battery Regulation
- Design and implementation of an FMEA-based methodology for identifying and prioritizing potential failure modes within the DPP test system
- Analysis, evaluation, and optimization of data structures and interfaces to ensure data quality and interoperability
- Support in the system specification, modeling, and prototypical implementation of the test environment in close collaboration with project partners
- Organization of stakeholder workshops and coordination with industry and associations for requirement gathering, validation, and dissemination
- Contribution to scientific publications, technical documentation, and policy/industry guidelines on battery passport implementation

Your profile:

- Successfully completed scientific university degree (Master, Diplom or equivalent) in engineering, industrial engineering, computer science, data science, or a related field
- Solid background in quality management, data quality, Large Language Models
- Experience in the application or development of FMEA or comparable risk and failure analysis methods
- Knowledge of data analysis, data management, and interface design (e.g. JSON/XML, APIs, data modeling)
- Programming skills in Python or a similar language (e.g. R, JavaScript)
- Ideally, experience with validation of data structures and interoperability testing methods
- Interest in interdisciplinary collaboration in the fields of digital product passports, circular economy, AI, and data governance
- Ability and motivation for academic research (publications, conference papers, project documentation)
- Good command of German and/or English required; willingness to learn either English or German is expected
- Independent, systematic, and reliable working style, combined with strong teamwork and communication skills are a plus

How to apply:

Please send your application **with the reference number** and the usual documents **only via email** (bundled in one PDF document, max. 5 MB) to Prof. Dr. Jochem via anja.hertzberg@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/menuue/themen_a_z/datenschutzerklaerung/.

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>

