Technische Universität Berlin

Technische Universität Berlin offers an open position:

Research Assistant - salary grade E 13 TV-L Berliner Hochschulen

part-time employment may be possible

Faculty III - Institute of Chemical and Process Engineering / Process Dynamics and Operations Group
Reference number: III-42/25 (starting at the earliest possible / until 31/10/26 / closing date for applications 28/02/25)

Working field:

The Process Dynamics and Operations Group is looking for a new employee for an exciting research project on process engineering at the interface to building construction. This is of interest, for example, for chemical or pharmaceutical plants installed in laboratory or production buildings. Here, data models and methods are to be developed with which the pre-engineering phase in particular can be supported and implemented in mixed reality solutions. The following specific tasks need to be tackled to this end:

- Development of methodical approaches for pre-engineering at the interface of chemical plants and buildings
- Formulation of an integration model for linking building design according to Building Information Modeling, process plant design according to DEXPI, and 3D envelope models
- Realization of a mixed reality (MR) prototype together with project partners for the consideration and development of alternative solutions in pre-engineering and testing using a real example plant

For more information on the job or for general information about the chair please contact sekr@dbta.tu-berlin.de. Further information on the department you can find at tu.berlin/dbta.

Requirements:

The department is based in chemical engineering, but candidates from other engineering disciplines or backgrounds are always welcome. Regarding the described position, we are interested in colleagues with the following qualifications and interests:

- Successfully completed university degree (Master, Diplom or equivalent) in a suitable discipline (Computational Engineering Science, Process Engineering, Chemical Engineering or similar) is a must.
- We are a very international team. Hence, language skills in English are always of help and we expect you to be willing to learn German.
- Required is basic knowledge on methodological approaches in engineering for chemical processes and process modeling
- Basic knowledge in computer science respectively programming, e.g., in Python, C++, or similar is required.

Desirable:

- Autonomous, well-organized applicants
- Practical experience in engineering

Please send your application with the **reference number** and the usual documents
(CV, records/grades, application letter, all combined in a single pdf file, max. 5 MB) by email to Prof. Dr.-Ing. habil. Jens-Uwe Repke (**sekr@dbta.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/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.

Technische Universität Berlin - Die Präsidentin - Fakultät III, Institut für Prozess- und Verfahrenstechnik, FG Dynamik und Betrieb technischer Anlagen, Prof. Dr.-Ing. habil. Jens-Uwe Repke, Sekr. KWT 9, Straße des 17. Juni 135, 10623 Berlin

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

Zertifikat seit 2008
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