



Technische Universität Berlin offers an open position:

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

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

Faculty III - Institute of Chemical and Process Engineering / Process Dynamics and Operations Group

Reference number: III-558/23 (starting at 01/10/23 / limited for 3 years / closing date for applications 06/10/23)

Working field: The Process Dynamics and Operations Group is looking for a new employee for an exciting third-party funded project (subject to approval of funding) in the field of CO₂ capture using intensified separation apparatus. The project will explicitly investigate the use of rotating packed bed absorbers as an intensified counterpart to packing columns and further develop the process of amine-based CO₂ absorption using these devices. The project includes the construction of an experimental plant, extended experimental campaigns and investigation of design modifications as well as process modeling to describe the dynamic process behavior. Specific tasks here are:

- Planning, design and modification of a mini-plant for CO₂ absorption by means of rotating packed bed absorbers as well as programming of the process control system.
- Development of necessary process analytics and execution of extended experimental campaigns
- Test of design modifications (internals)
- Development of dynamic process model and correlations (e.g. mass transfer, liquid holdup) for amine-based CO₂ absorption

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 interdisciplinary department is based in chemical engineering and therefore always welcomes applicants from other fields and disciplines. With regard to the advertised position, we are looking for employees with the following qualifications and interests:

- Successfully completed scientific university studies (Master, Diploma or equivalent) in a suitable field (process engineering, chemical engineering or similar)
- Very good knowledge in chemical engineering, especially in thermal separation technology and fluid dynamics are required
- Experience in planning, construction and operation of experimental plants is required
- Ideally you have good previous knowledge in the field of process automation and process control systems
- Experience in modeling of process engineering systems is desirable
- Our team is very international; good German and/or English language skills are required; willingness to learn the respective missing language skills is expected
- Independent, well-organized working attitude is desirable

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. 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/ 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.

Technische Universität Berlin - Die Präsidentin - Fakultät III, Institut für Prozess- und Verfahrenstechnik, FG Dynamik und Betrieb technischer Anlagen, Prof. Dr. 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/>

