Technische Universität Berlin offers an open position:

Research Assistant - salary grade E 13 TV-L Berliner Hochschulen - 1st qualification phase (for doctorate)

part-time employment may be possible

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About us:
We work for a future resilient energy sector with focus on the dynamic evaluation and optimization of energy-conversion systems based on renewable energy and open-access optimization tools. We offer you a young, international, and inter-disciplinary working environment at a leading research institute in the heart of Berlin.

Faculty III - Institute of Energy Engineering / Chair of Energy Engineering and Climate Protection
Reference number: III-113/25 (starting at the earliest possible / limited for 5 years / closing date for applications 11/04/25)

Working field:

- Collaboration in research and teaching at the Chair of Energy Engineering and Climate Protection
- Supervision of seminars and courses
- Co-supervision of students
- Carrying out own research on the basis of the previous results of the chair

Requirements:

- Successfully completed scientific university degree (Master, Diploma, or equivalent) in energy engineering, process engineering, power plant engineering or a closely related engineering science with a focus on energy engineering and thermodynamics with very good grades
- Excellent knowledge of energy-conversion concepts and plants as well as evaluation methods (exergy analysis, economic analysis)
- The ability to teach in German and/or in English is required; willingness to acquire the respective missing language skills

Desirable:

- Independent and structured way of working; ability to work in a team
- Experience in the organization, presentation, and execution of courses and exams
- Experience in the publication of research results
- Experience in the simulation of energy conversion systems and chemical engineering processes, for example with software tools such as Aspen Plus, EES, Ebsilon Professional
- Experience with programming languages (e.g. Python)
- Experience in the application of exergy-based methods
- Experience with LCA methods
- Experience with machine learning methods

Applications should include:

- A cover letter that describes your motivation, suitability for this position, and professional interests along with their connection to your studies and goals
- CV including relevant professional experience, knowledge, and, if applicable, a list of publications
- Copy of diplomas and grades from previous university studies

Please send your application **with the reference number** by email as a single PDF file (max. 5 MB) to Prof. Dr.-Ing. Fontina Petrakopoulou (**fontina.petrakopoulou@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/ .

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 Energietechnik, FG Energietechnik und Klimaschutz, Prof. Dr.-Ing. Fontina Petrakopoulou, Sekr. KT1, Marchstr. 18, 10587 Berlin

The vacancy is also available on the internet at