



At the Faculty of Mechanical, Process and Energy Engineering, Institute of Energy Process Engineering and Chemical Engineering, Professorship of Energy Process Engineering invites applications for the position of a



Research Associate (m/f/d) – reference number 104-E/2022

to join our research group at the earliest possible time.

Pay grade: E13 TV-L
Hours: 1,0 FTE (part-time possible)
Contract type: 2,5 years (prolongation aspired)

The direct coupling of electricity from renewable energies into a thermochemical conversion process represents a promising approach for a sustainable production in the chemical industry. Your task is to evaluate, compare and optimize different concepts on the computer by means of numerical modeling.

Job description:

- Application and further development of CFD-based models for various thermochemical conversion processes
- Model-based evaluation of new concepts for the integration of electricity from renewable energies into chemical processes
- Support in the planning and evaluation of experimental studies
- Publication of research results in international journals and at national and international conferences

What you can expect from us:

- a position in an active and supportive research group at a family-friendly university with flexible working hours
- Salary in accordance with the collective labor agreement for civil servants of the federal states
- Support from experienced colleagues, possibility to take part in the University's career development programs

What we expect from you:

- a university diploma or master's degree or PhD in process engineering, mechanical engineering, computer science, applied mathematics or related fields
- preferred knowledge of reactive flows and CFD modeling
- independent, self-reliant way of working
- Enthusiasm and creativity
- very good English and German language skills (verbal and written)
- readiness for further qualification
- Development and support of lectures and seminars

**For further information please contact Prof. Dr.-Ing. habil. Andreas Richter, Tel.: 03731 39-4801,
E-Mail: a.richter@iec.tu-freiberg.de.**

The applicant (m/f/d) must meet the hiring requirements for fixed-term employment contracts according to the *WissZeitVG*. Applicants with disabilities will receive preferential consideration, provided they possess equal qualifications. For consideration, we ask you to submit proof of your disabled status together with your application documents. TU Bergakademie is committed to increasing the number of women in teaching and research positions, hence qualified female candidates are especially encouraged to apply.

Written applications, including a CV, motivation letter and copies of all relevant qualifications documents (certificates, diplomas), should be submitted by **May 27, 2022** stating **reference number (104-E/2022)** to the following address:

**TU Bergakademie Freiberg, Dezernat für Personalangelegenheiten, 09596 Freiberg or
bewerbungen@tu-freiberg.de**

Your application documents will not be returned, please only submit copies. Candidates will not be compensated for any costs incurred for attending interviews. TU Bergakademie Freiberg is always looking for scientific personnel from various disciplines. Further information can be found at <http://tu-freiberg.de/wirtschaft/karriere/stellenausschreibungen>