Faculty of Mechanical Science and Engineering

At the Institute of Process Engineering and Environmental Technology, the Process Systems Engineering Group offers a position as

**Research Associate (m/f/x)**

(subject to personal qualification employees are remunerated according to salary group E 13 TV-L)

starting as soon as possible. The position is limited until November 01, 2023 for the duration of the parental leave period. There are good opportunities for continued employment in other research projects.

The Process Systems Engineering group offers the opportunity to shape the future of computational process systems engineering in a thriving and dynamic research environment, to gain valuable project experience, and to build and deepen contacts in the research and industrial landscape. Further information on the Process Systems Engineering Group can be found on: [https://tu-dresden.de/ing/maschinenwesen/ifvu/svt](https://tu-dresden.de/ing/maschinenwesen/ifvu/svt).

**Tasks:** Support of teaching in the field of process systems engineering (process analysis, modeling, simulation and optimization). Analysis and development of computer-aided methods for the design of modular process plants; investigation and development of modular process control and safety concepts. The main focus of the employment activity is on the field of closed-loop and open-loop control of process plants. Research results will be coordinated with project partners from industry and academia and will be published at international conferences and in recognized journals.

**Requirements:** above-average university degree in the field of process engineering, chemical engineering, mechanical engineering, physics or mathematics; enthusiasm for science as well as solid mathematical knowledge to analyze and solve complex interrelationships in the field of process systems engineering; sound experience in programming with MATLAB® or Python; independent goal- and solution-oriented approach, inter- and multidisciplinary thinking, integrative and cooperative behavior with excellent communication and social skills; confident command of written and spoken English.

Applications from women are particularly welcome. The same applies to people with disabilities.

Please submit your comprehensive application including the usual documents by September 13, 2022 (stamped arrival date of the university central mail service applies), preferably via the TU Dresden SecureMail Portal [https://securemail.tu-dresden.de](https://securemail.tu-dresden.de) by sending it with the title **“SVT_Application, Your_Name”** to jonathan.maedler@tu-dresden.de or to: TU Dresden, Fakultät Maschinenwesen, Institut für Verfahrenstechnik und Umwelttechnik, Arbeitsgruppe Systemverfahrenstechnik, z. Hd. Herrn Jonathan Mädler, Helmholtzstr. 10, 01069 Dresden, Germany. Please submit copies only, as your application will not be returned to you. Expenses incurred in attending interviews cannot be reimbursed.

**Reference to data protection:** Your data protection rights, the purpose for which your data will be processed, as well as further information about data protection is available to you on the website: [https://tu-dresden.de/karriere/datenschutzhinweis](https://tu-dresden.de/karriere/datenschutzhinweis)