



Technische Universität Berlin



Technische Universität Berlin offers an open position:

Research Assistant - 0.75 working time - salary grade E13 TV-L Berliner Hochschulen

Faculty II - Institute of Mathematics / SFB 910

Reference number: II-603/20 (starting at 01/01/21 / until 31/12/22 / closing date for applications 06/11/20)

Working field: Research within the Collaborative Research Center 910 "Control of self-organizing nonlinear systems: theoretical methods and application concepts" in subproject 02 "Analysis of port-Hamiltonian (pH) differential-algebraic equations with time delay (delay-differential equations DDAEs, Analysis and computation of stability exponents for port-Hamiltonian delay differential-algebraic equations)"; investigation of the optimal control of pH DDAEs and the place and time discretization of operator formulations obtained by variation approaches and the development of efficient numerical simulation methods and model reduction for pH DDAEs. The extension to partial differential-algebraic equations with time delay is also planned. PhD thesis preparation is possible.

Requirements:

- successfully completed university degree (Master, Diplom or equivalent) in Mathematics or a comparable subject
- excellent knowledge and experience in the fields of differential-algebraic equations, infinite dimensional systems, port-Hamiltonian dynamical systems, control theory, model reduction and numerical mathematics
- high degree of independence and commitment
- good command of German and/or English required; willingness to learn either English or German is expected

More information about the position can be obtained from Prof. Dr. Volker Mehrmann (email: Volker.mehrmann@tu-berlin.de, phone: +49 (0)30 314-25736, web: https://www.math.tu-berlin.de/fachgebiete_ag_modnumdiff/fg_numerische_mathematik/v-menue/mitarbeiter/mehrmann/home/).

Please send your application with the **reference number** and the usual documents (combined in a single pdf file, max. 5 MB) **by email to Prof. Dr. Mehrmann (mehrmann@math.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 - Der Präsident - Fakultät II, Institut für Mathematik, Prof. Dr. Mehrmann, Sekr. MA 4-5, Str. des 17. Juni 136, 10623 Berlin

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

