



Technische Universität Berlin



Research Assistant - salary grade E 13 TV-L Berliner Hochschulen - 1st qualification period (PhD candidate)

Part-time employment may be possible

Faculty II - Mathematics and Natural Sciences, Institute of Mathematics, Numerical methods for partial differential equations

Reference number: II-508/25 (starting at the earliest possible / limited for 5 years / closing date for applications 05/12/25)

Your responsibility:

- Research and teaching at the Institute of Mathematics within the chair of numerical methods for partial differential equations (PDEs)
- Research within the fields of the chair for numerical methods for PDEs, for example the development of new methods for simulation and/or optimization of convection-dominated flow problems
- Teaching (4 SWS for a full-time position) in courses for math- and non-math majors, in particular in the area of numerical methods, including supervision of seminars and assistance for lectures, teaching of exercise classes, and cosupervision of BSc and MSc students / thesis

Your profile:

- At the time of hire, successfully completed university degree (MSc, Diploma or equivalent) in mathematics, technical mathematics, or equivalent, or in scientific computing, or in a field of study with a comparable specialization
- From the 3 fields of continuous finite element methods, discontinuous Galerkin methods, and finite volume methods: either very good knowledge in one of them or good knowledge in at least two of them, as well as the willingness to learn the other methods
- The ability to teach in German and/or in English is required; willingness to acquire the respective missing language
- Good knowledge of the theory of PDEs (is desirable)
- Good knowledge in numerical analysis (error/stability analysis of methods) (is desirable)
- Good programming skills in ideally several languages, ideally also in C++, and experience in using bigger software packages (is desirable)
- Teaching experience (is desirable)
- Team spirit, working cooperatively (is desirable)

More information can be obtained from Prof. Dr. Sandra May (may@math.tu-berlin.de).

How to apply:

Please send your application with **the reference number** and the usual documents (in particular short motivation letter, complete and up-to-date curriculum vitae, Bachelor's and Master's degree and overview of grades) only by email (single pdf file, max. 5 MB) to Jana Kaminski (kaminski@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/datenschutzzerklaerung/.

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.

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

