TUD Dresden University of Technology, as a University of Excellence, is one of the leading and most dynamic research institutions in the country. Founded in 1828, today it is a globally oriented, regionally anchored top university as it focuses on the grand challenges of the 21st century. It develops innovative solutions for the world's most pressing issues. In research and academic programs, the university unites the natural and engineering sciences with the humanities, social sciences and medicine. This wide range of disciplines is a special feature, facilitating interdisciplinarity and transfer of science to society. As a modern employer, it offers attractive working conditions to all employees in teaching, research, technology and administration. The goal is to promote and develop their individual abilities while empowering everyone to reach their full potential. TUD embodies a university culture that is characterized by cosmopolitanism, mutual appreciation, thriving innovation and active participation. For TUD diversity is an essential feature and a quality criterion of an excellent university. Accordingly, we welcome all applicants who would like to commit themselves, their achievements and productivity to the success of the whole institution.

At the **Faculty of Mathematics, Institute of Scientific Computing**, the **Chair of Applied Analysis** offers a position as

*Research Associate / PhD Student / Postdoc (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 to three years. The period of employment is governed by the Fixed Term Research Contracts Act (Wissenschaftszeitvertragsgesetz - WissZeitVG). The position either comprises 100% of the fulltime weekly hours (as a postdoc) or 75% of the fulltime weekly hours (as a PhD Student). The position aims at obtaining further academic qualification (usually PhD / habilitation thesis). Balancing family and career is an important issue. The full-time postdoc position is generally suitable for candidates seeking part-time employment. Please indicate the request in your application.

The research focus of the Chair is on non-linear partial differential equations, variational methods and mathematical modeling in continuum mechanics. Periodic and stochastic homogenization is one of the main topics of the chair. It is involved in various research projects, including the interdisciplinary research group FOR 3013 [http://for3013.webspace.tu-dresden.de](http://for3013.webspace.tu-dresden.de) as well as projects in interdisciplinary coordinated programs.

**Tasks:** You will be actively involved in the research activities of the Chair of Applied Analysis, especially in the field of homogenization of partial differential equations and/or the analysis of variational problems with application in continuum mechanics. You will also teach courses in German and English in the field of mathematics.

**Requirements:** You should

- have an above-average university degree (Master) and – if applicable- a PhD degree in mathematics (or a comparable subject);
- have sound expertise in the analysis of partial differential equations and variational problems;
- and be able to carry out teaching tasks in German and English.
- In addition, the following skills are desirable:
- knowledge in one or more of the following areas: homogenization, regularity theory for partial differential equations, mathematical continuum mechanics;
- a strong interest in interdisciplinary work;
- proven skills in writing scientific papers.
Postdoctoral applicants should also have an above-average PhD in the field of mathematics. Please note that applications from candidates who do not yet hold a doctorate will also be considered, provided that the dissertation has already been submitted.

TUD strives to employ more women in academia and research. We therefore expressly encourage women to apply. The University is a certified family-friendly university and offers a Dual Career Service. We welcome applications from candidates with disabilities. If multiple candidates prove to be equally qualified, those with disabilities or with equivalent status pursuant to the German Social Code IX (SGB IX) will receive priority for employment.

Please submit your detailed application with the usual documents by **March 12, 2024** (stamped arrival date of the university central mail service or the time stamp on the email server of TUD applies), preferably via the TUD SecureMail Portal [https://securemail.tu-dresden.de](https://securemail.tu-dresden.de) by sending it as a single pdf file to stefan.neukamm@tu-dresden.de or to: **TU Dresden, Fakultät Mathematik, Institut für Wissenschaftliches Rechnen, z. Hd. Herrn Prof. Dr. Stefan Neukamm, 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).