Faculty of Mathematics

At the Institute of Scientific Computing the Junior Professorship in Applied Mathematics offers a position as

Research Associate / PhD Student
(Subject to personal qualification employees are remunerated according to salary group E 13 TV-L)

with 50% of the full-time weekly hours preferably starting at March 1, 2021 for a duration of three years. The period of employment is governed by the Fixed Term Research Contracts Act (Wissensschaftszeitvertragsgesetz - WissZeitVG). The position aims at obtaining further academic qualification (e.g. PhD).

Research area: Systems of interacting species are ubiquitous in nature and everyday life and occur across different scales. Typically, they comprise many agents that, through interactions with members of the same species and other species, respectively, give rise to a complex macroscopic behavior.

Tasks: Potential research directions of the prospective student concern the analysis and simulations of nonlinear partial differential equations that arise in the context of interacting species. Topics include the study of interaction systems with applications to developmental biology such as pattern formation and tissue growth. Depending on the specific profile of the candidate the project will be adjusted accordingly. Teaching obligation according to DAVOHS.

Requirements: The candidate holds an excellent university degree (Master's or Diploma) in mathematics, theoretical biology, theoretical physics or computer science with a strong background in (not necessarily all of) the following fields: nonlinear PDEs, modeling with PDEs and numerical simulations, numerical analysis. Moreover, the prospective student is expected to have sufficient English proficiency to communicate research effectively and discuss and present his/her/their work in an international environment.

Applications from women are particularly welcome. The same applies to people with disabilities. Please submit your application including a cover letter, an up-to-date CV, and two letters of recommendation preferably via the TU Dresden SecureMail Portal https://securemail.tu-dresden.de by sending it as a single pdf document to markus.schmidtchen@tu-dresden.de or by mail to: TU Dresden, Fakultät Mathematik, Institut für Wissenschaftliches Rechnen, Juniorprofessur für Angewandte Mathematik, Herrn Jun.-Prof. Markus Schmidtchen, Helmholtzstr. 10, 01069 Dresden. The application deadline is February 12, 2021 (stamped arrival date of the university central mail service applies). 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