



Paderborn University is a high-performance and internationally oriented university with approximately 20,000 students. Within interdisciplinary teams, we design forward-looking research, innovative teaching and the active transfer of knowledge into society. As an important research and cooperation partner, the university also shapes regional development strategies. We offer our more than 2,300 employees in research, teaching, technology and administration a lively working environment, a lean management structure and diverse opportunities.

Join us to invent the future!

In the Department of Mathematics at Paderborn University, which is part of the Faculty of Computer Science, Electrical Engineering and Mathematics, the following tree positions are to be filled as soon as possible:

Research Assistant (f/m/d)

(salary is according to 13 TV-L)

with 100 % of the regular working time. Both doctoral candidates and postdocs are welcome.

It is a full-time qualification position to support a PhD-project in the field of Applied Mathematics. The initial contract is for three years but limited to the duration of the PhD-project. An extension to finish the PhD is possible in accordance with the rules of the WissZeitVG. For PostDocs, this is a qualification position in the sense of WissZeitVG, which is intended to contribute to qualification with regard to an academic career.

Area of responsibility:

In the Applied Mathematics group there will be three scientific staff positions to fill as soon as possible. The group's research topics are in the field of computational mathematics and optimization with a particular focus on structure-preserving simulation methods and modern engineering applications such as vehicle dynamics, space mission design or robotics. Current research projects include the areas of optimal control of differential equations, the development and analysis of numerical geometric integrators, the combination of mathematical methods with learning processes, and the use of symmetries in model predictive control.

Project description and area of responsibility

- Development and analysis of modern numerical simulation methods
- Participation in teaching, supervision of exercises and student work

Necessary requirements:

- Scientific university degree (Doctorate or master's degree) in mathematics or related fields
- Analytical thinking skills, teamwork and enthusiasm, independent work
- Previous knowledge in the areas of differential equations, computational mathematics and optimization is advantageous
- Programming knowledge in Matlab or a comparable programming language is advantageous
- Good language skills in English

Since Paderborn University seeks to increase the number of female researchers, applications of women are especially welcome. In case of equal qualification and scientific achievements, they will receive preferential treatment according to the North Rhine-Westphalian Equal Opportunities Policy (LGG), unless there are cogent reasons to give preference to another applicant. Likewise, applications of disabled people with appropriate qualification are explicitly requested. This also applies to people with equal status according to the German social law SGB IX.

Applications with the common material (cover letter, cv, certificates) must be received by **15.05.2020 (Ref. No. 4229)**. Please send your application in a single pdf file by email to:

Department of Mathematics
Paderborn University
Warburger Str. 100
33098 Paderborn
eim-m-gs@upb.de

