

The position (75 % of a fulltime position) of a

Research assistant

is available at the Numerics Group (Prof. Dr. Christian Rieger) in the **Department Mathematics and Computer Science**. It is to be filled **as soon as possible for 3 years**. Classification is in **pay grade 13** (75%) of the Hessian collective agreement.

Responsibilities include scientific research within the DFG funded project on kernel based multilevel methods for high dimensional approximation problems using sparse grids. This project is a cooperation with the University of Bayreuth (Prof. Dr. Wendland). The research tasks include the development of problem adapted approximation schemes and their error analysis. Moreover the tasks include also to contribute to the numerical implementation and validation of those methods.

The position is limited to a time period deemed adequate for the completion of a doctoral degree. As part of the assigned duties, there will be ample opportunity to conduct the independent scientific research necessary for the completion of a doctorate. The limitation complies to § 2, 1 WissZeitVG.

We are seeking for a highly motivated candidate with a degree in mathematics (diploma, master's degree or equivalent) and good background in kernel-based approximation theory or machine learning. Very good knowledge of the theory of reproducing kernel Hilbert spaces is expected. A solid background in the implementation of numerical methods is advantageous. The willingness to gain one's own scientific qualification is expected.

Philipps-Universität Marburg supports young scientists in their career development, e.g. through the PhD program "Data Science: Mathematical Analysis, Scalable Algorithms, and Systems", positions offered by the Marburg Research Academy (MARA), the International Office and places for higher education pedagogy and personnel development.

We support women and strongly encourage them to apply. In areas where women are underrepresented, female applicants will be preferred in case of equal qualifications. Applicants with children are welcome - Philipps-University is certified as a family-friendly university. Sharing a full-time position (§ 8 Abs. 2 S. 1 HGlG) as well as a reduction of working time is possible. Applicants with a disability as described in SGB IX (§ 2 Abs. 2, 3) will be preferred in case of equal qualifications. Application and interview costs can not be refunded.

All application documents must be sent to the Department of Mathematics and Computer Science, Prof. Christian Rieger only in PDF to riegeerc@mathematik.uni-marburg.de before September 10th, 2021, citing reference number fb12-0024-wmz-2021.