



The Karlsruhe Institute of Technology (KIT) is the result of the merger of the University of Karlsruhe and the Research Center, Karlsruhe. It is a unique institution in Germany, which combines the mission of a university with that of a large-scale research center of the Helmholtz Association. With 9000 employees, 22000 students, and an annual budget of EUR 1090 million, KIT is one of the largest research and education institutions worldwide.

The Discrete Mathematics group at the KIT Department of Mathematics offers a

**PhD Position**  
**(Akademische/n Mitarbeiter/in)**

**to work on Graph theory and Combinatorics.**

Motivated students with strong background in discrete mathematics are invited to apply for this PhD position. A Master degree in mathematics or theoretical computer science is required. Knowledge in graph theory and combinatorics and very good problem solving skills are expected. An excellent knowledge of English is required, knowledge of German is preferred.

Specific research topics include generalized Ramsey-type problems, graph coloring problems, extremal problems in set systems and posets, extremal problems in graphs. The position responsibility includes teaching three academic hours per week.

The position is available starting **October 1, 2023**. The salary grade is 0.75 E13.

KIT is pursuing a gender equality policy. Women are therefore particularly encouraged to apply. If qualified, handicapped applicants will be preferred.

Please submit your application, including a curriculum vitae, transcript of record with a list of all mathematics courses and respective grades, an outline of your research interests, and a list of two references. Application should preferably be sent via e-mail to [maria.aksenovich@kit.edu](mailto:maria.aksenovich@kit.edu). Alternatively, please use:

**Prof. Dr. Maria Axenovich**  
**Karlsruher Institut für Technologie**  
**Campus Süd**  
**Institut für Algebra und Geometrie**  
**Englerstr. 2**  
**76131 Karlsruhe,**  
**Germany**  
**[maria.aksenovich@kit.edu](mailto:maria.aksenovich@kit.edu)**

For further inquiries on the positions, please contact Prof. Maria Axenovich via e-mail.

KIT – Universität des Landes Baden-Württemberg und nationales Forschungszentrum in der Helmholtz-Gemeinschaft.