KATHOLISCHE UNIVERSITÄT EICHSTÄTT-INGOLSTADT

The Catholic University of Eichstätt-Ingolstadt (KU) is a non-state University under church leadership and officially recognized by the Free State of Bavaria. It is committed to strong research and excellent teaching and combines first-class study conditions with an international focus. Eight faculties offer a wide range of subjects for around 5,000 students. The University employs 900 people of different faiths and beliefs. Grounded in the Christian view of human life, the KU aims to create an academic and educational culture of responsibility.

The Chair of Applied Mathematics at the Faculty of Mathematics and Geography at the KU Eichstätt-Ingolstadt invites applications for a part-time position (75%) as

Doctoral candidate in Applied Mathematics/ Approximation Theory

to be filled by the earliest possible starting date with an initial contract duration of 3 years (with possibility for extension). The place of work will be Ingolstadt. The successful candidate will be employed in a private-law employment relationship, in which case remuneration will be according to pay grade E 13 TV-L provided that the requirements are met.

The Chair of Applied Mathematics, headed by Prof. Marcel Oliver, is part of the Mathematical Institute for Machine Learning and Data Science (MIDS) at the KU Eichstätt-Ingolstadt.
The research group works at the intersection of analysis, modeling and simulation. The advertised position is partly funded by the German Research Foundation (DFG) project "Kernel interpolation on Riemannian manifolds", led by Dr. Janin Jäger. The project focuses on the mathematical analysis of kernel-based methods, in particular their interpolation and approximation properties when applied to approximation on spherical surfaces and other Riemannian manifolds.

Your tasks

- Contribution to current research projects of the Chair
- Own mathematical research in the context of the project as part of the candidate's doctoral thesis
- Knowledge transfer through publications and participation in conferences
- Teaching duties at the University as part of the subject-specific orientation of the Chair of Applied Mathematics

Your profile

- University degree (*Diplom*, Master's or equivalent degree) in mathematics, preferably with a focus on one of the following areas:
    - Numerical analysis
    - (High-dimensional) probability theory
    - Real and functional analysis
    - Spatial statistics
    - Fourier analysis

  A university degree at Master's level is a prerequisite for pursuing the doctorate and must be completed when starting the position (not necessarily when submitting the application).
- Interest in mathematical analysis of approximation algorithms
- Preferably practical experience in programming (not mandatory)
- Interest in teaching in our Data Science program (experience desired, but not mandatory)
- German language skills are not required, but candidates are encouraged to acquire them while holding the position

Our offer

- Attractive and team-oriented workplace in the center of Ingolstadt
- Opportunity to pursue own research interests and obtain a doctoral degree in mathematics
- Opportunity to gain teaching experience
- Interesting and versatile range of responsibilities and tasks
- International contacts

Your application

Please send your detailed application with the usual documents by September 21, 2025, via our online application portal to Dr. Janin Jäger. All submitted application documents will be destroyed in accordance with data protection regulations after the hiring process has been completed.

All employees are obliged to acknowledge the nature and mission of the KU as stipulated in its Mission Statement and Foundation Charter. The University is therefore interested in receiving applications with relevant information in this regard. Other than that, there are no denominational requirements for employment at the KU.

The KU is committed to promoting equal opportunities and aims to ensure that its members are able to balance work and family life. Candidates with severe disabilities who are equally suitable to other applicants will be prioritized.