

The **University of Passau** owes its strong visibility and good repute to excellent research, innovative teaching and its tight-knit international academic networks. Some 13,000 students and more than 1,200 staff study and work on our university campus, which is located a stone's throw from the historical Old Town of Passau and combines state-of-the-art technical infrastructure with award-winning architecture. Internationally successful high-tech companies and a vibrant start-up scene, coupled with a rich culture and Lower Bavarian traditions, give Passau and the surrounding area a special appeal that makes it a great place to live and work.

As part of the *Hightech Agenda Bayern* initiative of the State of Bavaria, the University of Passau is consistently expanding its long-term focus areas 'Digitalisation', 'Networked Society' and 'Europe', particularly in the area of artificial intelligence and its implications. This expansion includes interdisciplinary research and teaching foci at the interface between digital transformation; methods of knowledge generation and decision support; economic, cultural and social interactions of artificial intelligence; and basic research in mathematics and computer science. All those involved collaborate across academic disciplines and/or faculty boundaries with a critically reflective mindset, contributing their methodological know-how and applying their subject expertise.

The **Faculty of Computer Science and Mathematics** at the University of Passau invites applications for the tenured civil-service post of:

Chair of Mathematical Optimisation (pay grade W3)

This post is available to start immediately.

We are seeking an expert of international renown in **mathematical optimisation** and with a research focus on methods that are relevant for applications in artificial intelligence. Potential areas of interest include:

- High-dimensional optimisation
- Distributed optimisation
- Data-driven dynamic optimisation
- Gradient-free optimisation
- Optimisation for deep learning

The postholder will represent the subject in research and teaching. This involves teaching modules (including introductory modules) for the B.Sc. Mathematics degree programme, the English-taught M.Sc. Computational Mathematics as well as the soon-to-be-established, English-taught M.Sc. AI Engineering. The required teaching load is nine contact teaching hours per week. Didactic aptitude and the ability to teach independently are essential selection criteria. We expect an outstanding publication record on the theoretical underpinnings of optimisation theory and its algorithms; furthermore, candidates should be part of an international research community and have a demonstrated ability to successfully acquire external (third-party) funds from German and/or international donor organisations. A research interest in algorithms, connections with the other research interests represented at the faculty and with the newly established AI focus are desired, as is the willingness to cooperate on applied projects with industrial partners.

Research and teaching at the University of Passau are focused on the guiding theme of Digitalisation, Networked Society and (Internet) Cultures. A willingness for inter-faculty cooperation within the framework of the guiding theme as well as substantial contributions to internationally visible research at the University of Passau are desired.

The **Faculty of Computer Science and Mathematics** is particularly strong in terms of external funds acquired and in the number of scientific publications; furthermore, it enjoys an excellent worldwide standing for its research output, and its teaching quality is proven by the outstanding results achieved in German university rankings. In order to meet the diverse challenges of a dynamic research landscape, the faculty has the following core competencies: algorithmically oriented mathematics and theoretical computer science as a formal, theoretical foundation; and computer science with a focus on software, information systems and IT security for the implementation of theoretical principles in a wide range of application areas.

The successful candidate will be educated to doctoral level and either possess a formal post-doctoral qualification, such as the German 'Habilitation', or equivalent academic achievements garnered within or outside the higher education system or as part of a previous assistant professor or comparable role (e.g. German 'Juniorprofessur') or relevant qualification programmes such as the Emmy Noether Programme of the DFG. He or she will have demonstrated pedagogical aptitude and academic excellence, whereby the latter is generally established on the basis of the quality of his/her doctoral research and subsequent achievements, as applicable. In accordance with Art. 10(3)(1) of the Bavarian Higher Education Employment Act (BayHSchPG), candidates must not be more than 52 years of age at the time of their appointment.

The University of Passau actively promotes equal opportunities for all genders as well as diversity in the workforce; therefore, applications are welcome from all candidates who fulfil the requisite qualifications, without regard to gender, cultural or social background, religion, world view, disability or sexual identity. As the University of Passau wishes to raise the proportion of women in research and teaching, female academics are expressly encouraged to apply. This post may be available part-time, provided a suitable number of candidates are willing to work on a work-share basis. Furthermore, this post is suitable for those who are registered disabled. Registered disabled persons are given preference over non-disabled applicants who do not otherwise have statutory preferential status if their overall personal aptitudes, skills and qualifications are equal.

To be considered, your application must reach the University by **17 January 2021**. Your full application should include all relevant supporting documents (curriculum vitae, list of publications, teaching assignments, teaching evaluations etc.) and should preferably be sent by e-mail to dekanat@fim.uni-passau.de. It should be addressed to the Dean of the Faculty of Computer Science and Mathematics of the University of Passau, Innstr. 33, 94032 Passau, Germany. When e-mailing your application, all application documents should be attached as **a single pdf file**. E-mailed applications are kept on file for six months after the conclusion of the appointment procedure, whereupon they are deleted from our systems.

Please visit www.uni-passau.de/en/university/current-vacancies for our [data privacy statement](#).