

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 fixed-term civil-service post of:

**Professorship of Discrete Mathematics
(tenure-track professorship at pay grade W1 with an option on a
tenured W3 post)**

This post is available to start immediately.

We are seeking an expert of international renown in discrete mathematics. Potential research interests are:

- Discrete geometry
(e.g. convex geometry, polytopes, finite geometry, discrete differential geometry)
- Graph theory
(e.g. extremal graph theory, spectral graph theory, geometric graph theory)
- Combinatorics
(e.g. algebraic combinatorics, extremal combinatorics, designs, matroids)

Moreover, we would appreciate an openness to applications, such as artificial intelligence, image processing or coding theory, as well as the willingness to cooperate within the faculty, particularly on the new AI engineering research focus.

The postholder will represent the subject in research and teaching. This involves teaching modules for the B.Sc. Mathematics and B.Sc. Computer Science degree programmes as well as the English-taught M.Sc. Computational Mathematics and the soon-to-be-established M.Sc. AI Engineering. The teaching load is initially five contact teaching hours per week for

the W1 tenure-track post, rising to seven hours after a positive interim evaluation; for the tenured W3 post it is nine hours per week. High-quality publications, evidence of teaching excellence and the ability to teach in English are essential selection criteria. In addition, a good track record in the acquisition of external (third-party) funds from German and/or international donor organisations, independent teaching activities and integration into an international research community are desirable.

In Bavaria, 'Juniorprofessor' positions (pay grade W1) are civil service posts with a fixed term of three years in the first phase (in German: 'Beamter auf Zeit'). Following a positive evaluation, an extension to a total of six years is envisaged (cf. Art. 15(1) Bavarian Higher Education Employment Act, BayHSchPG).

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 will, furthermore, have demonstrated pedagogical aptitude and academic excellence, whereby the latter is generally established on the basis of the quality of his or her doctorate. 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.

Any periods of employment as research assistants or graduate research or teaching assistants (German job title: 'Wissenschaftlicher Mitarbeiter', 'Wissenschaftliche Mitarbeiterin' or 'Wissenschaftliche Hilfskraft') before or after the doctoral qualification phase will be counted towards the time limit under Art. 14(3) of the Bavarian Higher Education Employment Act (BayHSchPG): candidates must not have spent more than six years cumulatively in the doctoral and employment phase when applying for the W1 post. This period is extended as appropriate by any periods of maternity leave, parental leave etc.

The tenure-track career path is prescribed in the [tenure track statutes \(German text\)](#), which include provisions on quality assurance structures, procedures and standards. Advancement from the fixed-term tenure-track professorship to the tenured professorship will proceed in line with the criteria defined in this quality assurance concept. All professorships advertised as 'tenure track' by the University of Passau are binding for the University: following a positive evaluation of the postholder's work during the term of the initial professorship, the subsequent tenured post must be offered to him or her and cannot be withheld for extraneous reasons ('true tenure track'). This concept requires that candidates for this career path have completed a doctorate at a university other than the University of Passau and/or have worked in an academic position outside the University of Passau for a minimum of two years.

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](#).