

The **University of Passau** owes its strong visibility and good reputation to excellent research, innovative teaching and its tight-knit international academic networks. Some 12,000 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.

**The Chair of Management Science / Operations and Supply Chain Management (Professor Alena Otto)** at the **University of Passau** conducts research in Management Science/Operations Research. Our group develops quantitative planning approaches for operations management of companies that are undergoing digital transformation. We look at research questions related to the deployment of robots; planning systems of interacting robots, machines and people; as well as sustainable personnel planning in such dynamic, highly automated landscapes. We aim at conducting relevant and meaningful research at an internationally leading level. We work on many of our projects in an interdisciplinary way – especially those at the interface to Industrial Engineering and Data Analytics – as well as in international cooperative partnerships.

Our Chair invites applications for the position of

**Graduate Research and Teaching Assistant**  
(Subject area: "Planning of networked systems")

for immediate start.

This is a full-time position based on a fixed-term contract with a term of three years with the option of renewal. Remuneration is in accordance with pay grade E13 of the German public-sector collective agreement TV-L, which currently amounts to a *gross* income of about €3,800 at the lowest salary step (see <http://oeffentlicher-dienst.info/tv-l/allg/>). The salary step depends on the candidate's qualifications and experience. Please be aware that German taxes and insurance contributions can amount to about 40% of your gross salary.

**We offer**

- Collaboration on our research projects
- The opportunity to gain a doctorate under structured individual supervision at the University of Passau
- Excellent research infrastructure and flexible working hours
- Participation in relevant renowned national and international workshops, conferences and summer schools
- Opportunities for research stays abroad
- A great work climate in a dedicated research team
- Contacts to our cooperation partners in business in Germany and abroad

## **Duties and responsibilities**

- Conduct thorough and insightful research on the topics of our research group in a self-reliant manner. For instance, you will develop problem-specific exact and heuristic algorithms and perform relevant analyses such as complexity analysis.
- Explore the topic of “Planning of networked systems“, including decentral planning, dynamic programming and reinforcement learning.
- Present your results at national and international scientific conferences and write up the research results as articles for scientific journals.
- Teach courses (teaching load: up to 5 hours per week) and support the Chair in its administrative tasks.

## **Person specification**

- You have a very good master’s degree in a relevant quantitative discipline (e.g. mathematics, information systems, business administration or computer science).
- Excellent analytical skills, including the ability to formulate and prove theorems.
- Knowledge of operations research.
- Interest in contributing to the research interests of the Chair.
- Programming skills.
- Proficiency in English.
- Proficiency in German would be beneficial.
- Team-working ability, curiosity, fascination for learning and continuously gaining proficiency in new topics.

The University of Passau wishes to increase the proportion of its female staff and expressly encourages women to apply for the position. Job-sharing arrangements may be possible, depending on the number of suitable candidates.

This position is suitable for candidates who are registered disabled. Persons with disabilities 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.

If you have any further questions about this position, please contact Professor Alena Otto by e-mail at [alena.otto@uni-passau.de](mailto:alena.otto@uni-passau.de).

To apply, please send your full application, including all supporting documents (including your curriculum vitae and school, training and work certificates) as a single pdf file to [elisabeth.riesinger@uni-passau.de](mailto:elisabeth.riesinger@uni-passau.de) by no later than the **12<sup>th</sup> of July 2020**. 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](http://www.uni-passau.de/en/university/current-vacancies) for our data privacy statement.