



TECHNISCHE
UNIVERSITÄT
WIEN



institute of
telecommunications

Gusshausstrasse 25/E 389
A-1040 Wien
Austria

tel.: +43 1 58801 38901
email: e389.office@tuwien.ac.at

2. Mai 2024

Assistant (Prae-Doc)

30-hours/week | limited to 4 years

TU Wien is Austria's largest institution of research and higher education in the fields of technology and natural sciences. With over 26,000 students and more than 4000 scientists, research, teaching and learning dedicated to the advancement of science and technology have been conducted here for more than 200 years, guided by the motto "Technology for People". As a driver of innovation, TU Wien fosters close collaboration with business and industry and contributes to the prosperity of society.

At the **Institute of Telecommunications, Research Unit Wireless Communication**, TU Wien is offering a 30-hours/week position as an Assistant (prae-doc) financed from research project, limited to 4 years for 30 hours/week. Expected start: October 2024.

Tasks:

- Research to develop innovative resource management strategies using game theory, machine learning, and/or numerical optimization to improve the performance of wireless networks. The focus is on creating sustainable and adaptive solutions that consider the uncertainty about the dynamic wireless environment to meet specific network and user requirements.
- Teaching tasks (exercises, labs, exams), student guidance.
- Assistance with bachelor and master thesis supervision.
- Scientific publishing (journal and conference papers, dissertation).
- Participation in scientific events.
- Assistance with organizational and administrative tasks.

Your profile:

- Master of Science (M.Sc.) or diploma degree in electrical engineering and information technology with a focus on telecommunications or communication engineering or in related fields like Computer Science, Mathematics or Physics.
- Expertise in one or more of the following disciplines: communications engineering, communication networks, numerical optimization, signal processing, or machine learning.
- Proficiency in programming and simulating communication systems, particularly with tools such as Matlab or Python.
- Very good knowledge of spoken and written English.
- Interest in academic research and teaching.
- Advanced problem-solving skills and scientific curiosity.
- Commitment, independent working style, ability to work in a team, very good communication skills.

We offer:

- A broad range of opportunities in a thriving research area.
- A range of attractive social benefits (see [Fringe-Benefit Catalogue of TU Wien](#)).
- Internal and external training opportunities and various career options.
- Central location of the workplace as well as good accessibility (U1/U4 Karlsplatz).

TU Wien is committed to increasing the proportion of women, in particular, in leadership positions. Female applicants are explicitly encouraged to apply. Preference will be given to women when equally qualified unless reasons specific to a male applicant tilt the balance in his favour.

People with special needs are equally encouraged to apply. In case of any questions, please contact the confidant for disabled persons at the university, Mr. Gerhard Neustätter.

Entry-level salary is determined by the pay grade B1 of the Austrian collective agreement for university staff. This is a minimum of currently EUR 2,684.10/month gross, 14 times/year for 30 hours/week.

By submitting your application, you agree that your data may be stored and processed for the purpose of filling the vacancy. You can find our privacy policy on our webpage.

Application

We look forward to receiving your application until 31.07.2024. Your application package should be sent as a single PDF file (max. 10MB) and include your CV, motivation letter and academic degrees.

Email: E389.office@tuwien.ac.at