



TECHNISCHE  
UNIVERSITÄT  
WIEN



institute of  
telecommunications

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2. Mai 2024

### Assistant (Post-Doc)

40-hours/week | limited to 2 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 40-hours/week position as an Assistant (post-doc) financed from research project, limited to 2 years. Expected start: October 2024.

#### Tasks:

- Research to develop innovative resource management strategies using game theory, machine learning, and numerical optimization to improve the performance of wireless networks. The focus is on creating sustainable, scalable and resilient 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
- Student Supervision
- Scientific publishing (journal and conference papers)
- Participation in scientific events
- Assistance with organizational and administrative tasks

#### Your profile:

- Doctorate in electrical engineering and information technology with a focus on telecommunications or communications 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.
- Experience with research proposals and project management
- Experience in teaching and publication activities
- Interest and enjoyment in research and working with students
- Very good knowledge of spoken and written English
- 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, various career options
- Central location of 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 4.752,30/month gross, 14 times/year for 40 hours/week.

#### **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, list of publications and academic degrees.

Email: [E389.office@tuwien.ac.at](mailto:E389.office@tuwien.ac.at)