

Munich, October 2025

*Opportunities
for Talents*

Are you passionate about the future of wireless communications? Do you want to be part of a team that is researching and designing next-generation (6G) wireless communication systems? If so, we have an exciting opportunity for you!

The Chair of Theoretical Information Technology offers a position as

Research Associate (f/m/d) Integrated Sensing and Communication (ISAC)

Subject to personal qualification, employees are remunerated according to salary group E 13 TV-L.

The novel approach of integrated sensing and communication (ISAC) is a transformative paradigm in wireless systems that merges communication and sensing into a unified framework. This cutting-edge field promises to revolutionize applications ranging from autonomous driving and smart cities to next-generation mobile networks and industrial automation. You will contribute to the development of ISAC technologies that enable devices not only to exchange data but also to perceive their environment in real time. The work will be interdisciplinary across signal processing, machine learning, and wireless communications, with a strong emphasis on system-level innovation and practical deployment. You will also write publications and present your research results at international conferences.

To be qualified for this position, you should have

- Excellent university degree in electrical engineering, communications engineering, mathematics, physics (or similar)
- Proficiency in at least one programming language (e.g. Python)
- Experience with software-defined radios or other radio hardware
- Goal-oriented, independent, and structured work style
- A strong interest and curiosity in novel computing concepts and wireless technology

The following points are considered a bonus

- Prior knowledge of wireless communication systems (MIMO-OFDM, LTE, 5G-NR)
- Background in signal processing or radar technology
- Experience with spectrum analyzers, signal generators, or vector network analyzers

Our offer

- Research on current topics in an inspiring international working environment
- Full-time position (E13 TV-L) with the aim of obtaining a doctoral degree

How to apply

Please send us your application by e-mail (jobs.lti.cit@tum.de with "ISAC" in the subject line), including the following documents:

- Curriculum vitae, copies of relevant certificates and diplomas (or transcript of records if not yet finished)
- Short description of your research interests and your motivation for the application
- Master thesis and (if available) up to 3 publications
- Contact information for two references

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General Information

The Technical University of Munich (TUM) is aiming to increase the number of women employees, and applications from women are expressly welcomed. Applicants with disabilities, with essentially the same suitability and qualification, will be preferred. As you apply for a position at TUM, you will provide personal data; please note our data protection information according to Art. 13 Data Protection Basic Regulation (DSGVO) on the collection and processing of personal data in connection with your application, <http://go.tum.de/554159>. By submitting your application, you confirm that you have taken note of the data protection information of the TUM.

Contact

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