



At the Chair of Communication Networks (Lehrstuhl für Kommunikationsnetze, LKN) in the Department of Computer Engineering of the School of Computation, Information and Technology (CIT) of the Technische Universität München (TUM) a position is available as

Member of the research and teaching staff with the possibility to obtain a PhD

in the area of

Machine Learning and Security in 5G / 6G Communication Systems

In particular, in an ongoing research project as part of the chair's 6G research initiative together with domain experts, the following topics are going to be addressed

- ☐ Investigation of security challenges and possible attack vectors for 5G and 6G systems related to the application of Artificial Intelligence and Machine Learning methods
- ☐ Development of potential solution mechanisms and their evaluation

At LKN, we have an experimental platform consisting of a full end-to-end implementation of a 5G / 6G mobile communication system including UEs, RAN and core network (campus networks).

The successful applicant is expected to participate actively in research and teaching activities of the chair. The chair offers a team-oriented, motivating work atmosphere, allowing concentrating on challenging research questions.

The position is based on a full-time work contract limited to three years initially. Remuneration is according to the *Tarifvertrag für den öffentlichen Dienst der Länder (TV-L)*. Expected starting date is as soon as possible.

Applicants should have an excellent Master of Science degree in Electrical Engineering, Computer Engineering or Informatics and they should have a solid knowledge in the area of communication networks suitable to start research in the above area.

The candidate is expected to have very good communication skills in English and in German as well as solid programming skills. Enthusiasm, the desire for obtaining a PhD degree, creativity and team-orientation are essential.

As part of the Excellence Initiative of the German federal and state governments, TUM has been pursuing the strategic goal of substantially increasing the diversity of its faculty. As an equal opportunity and affirmative action employer, TUM explicitly encourages nominations of and applications from women as well as from all others who would bring additional diversity dimensions to the university's research and teaching strategies. Preference will be given to disabled candidates with essentially the same qualifications.

Interested candidates are asked to send their complete application documents (application letter, CV, summary of master thesis, certificates, list of publications, references) referring to this job offer in electronic form as soon as possible and before May 31, 2025 to the following email address: positions@lkn.ei.tum.de

or via post to: Technische Universität München
Lehrstuhl für Kommunikationsnetze
Prof. Dr.-Ing. Wolfgang Kellerer
Arcisstr. 21
D-80333 München
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In case of questions, please do not hesitate to contact us:
Prof. Dr.-Ing. Wolfgang Kellerer (wolfgang.kellerer@tum.de)