



At the Chair of Communication Networks (Lehrstuhl für Kommunikationsnetze, LKN) in the Department of Electrical and Computer Engineering of the Technische Universität München (TUM) positions are available as

Postdoctoral researcher as a member of the research and teaching staff

in the area of

AI-based networking for programmable communication networks

In particular, as part of the chair's 6G research initiative towards autonomous and self-driving communication networks supported by national grants and industrial funding, the following topics are going to be addressed

- Design and evaluation of autonomous communication networks
- Investigation of AI-based networking as well as networking for AI applications
- Performance evaluation based on analytical, simulation-based and measurement-based methods

At LKN, we have an experimental platform consisting of more than 20 carrier-grade programmable network elements as well as a full end-to-end implementation of a 5G / 6G mobile communication system including UEs, RAN and core network (local campus network).

The successful applicant is expected to take a leading research role by co-supervising PhD candidates as well as addressing new challenging research topics. Furthermore the candidate will also be involved in research project coordination and teaching activities of the chair. The chair offers a team-oriented, motivating work atmosphere, allowing concentrating on challenging research questions.

The positions are based on full-time work contracts limited to two years initially. Remuneration is according to the *Tarifvertrag für den öffentlichen Dienst der Länder (TV-L)*.

Applicants should have an excellent PhD 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 areas.

The candidates are expected to have very good communication skills in both English and **German** as well as solid experience in conducting research projects, analyzing and presenting research results, writing research papers, and guiding students. Enthusiasm, 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 to the following email address: positions@lkn.ei.tum.de. If not filled before the position is open until March 2023.

or via post to: Technische Universität München
Lehrstuhl für Kommunikationsnetze
Prof. Dr.-Ing. Wolfgang Kellerer
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)