

Munich, April 2023

Are you passionate about novel computing concepts and the future of wireless communication? 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 in the 6G-life Research-Hub "Digital Transformation and Sovereignty of Future Communication Networks" (www.6g-life.de) as

Research Associate (f/m/d) Neuromorphic Computing for Communication and Sensing

Subject to personal qualification, employees are remunerated according to salary group E 13 TV-L. The gross monthly remuneration in pay group E 13 TV-L is in the range €4,188 - €6,037, depending on work experience and length of service. The position is funded until August 2025 with the possibility of an extension.

You will work with cutting-edge neuromorphic hardware (SpiNNaker) and develop algorithms to process sensor data and for joint communications and sensing. You will also write publications and present your research results on international conferences.

To be qualified for this position, you should have

- Excellent university degree in electrical engineering, computer science, communications engineering, mathematics, physics (or similar)
- Proficiency in C/C++ and Python, good knowledge of embedded systems design and programming
- Goal-oriented, independent, and structured work style
- A strong interest and curiosity in novel computing concepts and wireless technology

Following points are considered a bonus

- Prior knowledge in signal processing and wireless communication systems (MIMO-OFDM, LTE, 5G-NR)
- Prior knowledge in deep learning, ideally with a focus on spiking neural networks
- Familiarity with sensor data processing and fusion (lidar, camera, radar), or with ROS
- Hands on experience with NI-USRP software-defined radios

Our offer

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

How to apply

Please send us your application by e-mail (jobs.lti.cit@tum.de with "6G-life COMP" in the subject line), including the following documents:

- Curriculum vitae, copies of relevant certificates and diplomas, contact information for two references
- Short description of your research interests and your motivation for the application
- Master thesis and (if available) up to 3 publications

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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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