

# Join the Bavarian Quantum Technology Initiative!

To support the quantum technology initiative of the federal and the Bavarian government we are looking for an experienced

## Quantum Engineer / Researcher (m/w/d) (100%)

to join our team at the Walther-Meissner-Institute (WMI) located at the Campus Garching near Munich in Germany. If your goal is to explore novel approaches to advance superconducting quantum computing, we would be happy to receive your application. We are looking for a skilled candidate who likes to take on responsibility in the design, fabrication and/or characterization of scalable superconducting quantum circuits. You will work within a growing team focusing on quantum computing (<https://www.wmi.badw.de/filipp/>) and quantum communication embedded in the diverse research activities at the WMI (<https://www.wmi.badw.de/>) and the close-by TU Munich (<https://www.tum.de/>).

The WMI is a research institute of the Bavarian Academy of Sciences and Humanities (BAdW) conducting fundamental and applied research in the field of low temperature physics with focus on spin transport in magnetic materials, superconducting quantum circuits for quantum information processes and hybrid devices. It plays a key role in the broad and highly visible Munich research efforts on quantum science such as in the quantum technology network of the Munich Center for Quantum Science and Technology (MCQST - <https://www.mcqst.de/>). This network of world-class research groups at both Munich universities and the Max-Planck Institute of Quantum Optics provides an ideal environment for basic and applied research on future quantum technologies with close links to several companies operating in this field in the Munich area.

When applying for this position you are expected to hold a PhD degree in physics or a similar field of study with a solid background in quantum information processing. You should have proven expertise in the experimental control of systems for quantum information processing at microwave frequencies and cryogenic temperatures including skills in instrumentation and measurement or expertise in micro- and nanofabrication. Prior experience with superconducting quantum circuits is an advantage, but not a must.

In addition, the following skills are highly desired:

- Expertise in microwave engineering using FEM simulation tools.
- Experience in cryogenics and the operation of dilution refrigerators.
- Proficiency in coding of control and analysis software (preferably in Python).
- Ability to conduct independent work and assume responsibility within a larger team.
- Curiosity and eagerness to learn independently about new areas and technologies.
- Strong communication and writing skills.

**Diversity.** We are determined to build an inclusive culture that encourages and values the diverse voices of all members of the research team embracing the full diversity of gender identities, cultures and ideologies to do finest research. Disabled candidates with equal qualification and aptitude will be given preferential consideration according to the SGB IX.

**How to apply.** If you are the right person for this opportunity, we are happy to receive your application sent to [Carola Siegmayer](mailto:sekretariat@wmi.badw.de) ([sekretariat@wmi.badw.de](mailto:sekretariat@wmi.badw.de)). Please send your documents including your CV, a publication list and a brief cover letter explaining your motivation in a single PDF file. The contract duration is initially for two years with the possibility of further extension and tenure. The position is available immediately, with a salary based on the federal wage agreement (TV-L E13). Applications will be taken into further consideration until October 16, 2020, or until the position is filled.

**Data Protection Information.** When you apply for a position with the BAdW, you are submitting personal information. Please take note of the data protection information on collecting and processing personal data contained in your application in accordance with Art. 13 of the General Data Protection Regulation (GDPR). By submitting your application, you confirm that you have acknowledged the above data protection information of the BAdW. More information can be found at <http://badw.de/die-akademie/service-und-jobs.html#c3843>.

