

Job ID: IQOQIIBK066DOC223

The Institute for Quantum Optics and Quantum Information Innsbruck ([IQOQI-IBK](#)) of the Austrian Academy of Sciences ([OeAW](#)), Austria's leading non-university research and science institution, dedicates its work to theoretical and experimental basic research in the areas of quantum science. IQOQI is pleased to invite applications for a

PHD STUDENT POSITION (F/M/X)
for the [SuperMeq](#) project
(part-time, 30h per week)

in the IQOQI research group “*superconducting quantum circuits*” led by Dr. Gerhard Kirchmair. The position is offered for one year with the option to be extended.

Your tasks:

- Planning and implementation of quantum physics experiments with superconducting circuits
- Buildup of a quantum hybrid system of a mechanical oscillator coupled to a superconducting circuit
- Analysis of experimental results and the writing of scientific publications
- Tutoring of bachelor and master students
- Attendance of workshops and conferences with poster presentations and talks
- Support of the group with administrative tasks

Your profile:

- Master's degree in physics with excellent academic record
- Experience with carrying out quantum physics experiments with superconducting circuits
- Experience with experimental techniques to characterize superconducting circuits like cryostats and microwave setups
- Practical cleanroom and micro fabrication experience such as electron beam lithography, metal evaporation and wet chemistry
- Experience in data analysis and numerical techniques for simulating quantum dynamics
- Strong background in quantum optics, quantum control and quantum information
- Excellent verbal and written English skills
- Ability to work in a team and to present scientific results to the community
- Fulfillment of the [official requirements for PhD students](#) of the University of Innsbruck

Our offer:

- Interesting field of activity in a dynamic environment
- Flextime arrangement
- Possibility to work in an innovative team
- Numerous social benefits for employees

We offer an annual gross salary of € 34.606,85, according to the collective agreement of the Austrian Academy of Sciences.

We invite you to send your application, including a letter of motivation, your curriculum vitae and certificates to iqoqi-ibk@oeaw.ac.at, mentioning Job ID: IQOQIIBK066DOC223. Applications are considered until the position is filled.

The Austrian Academy of Sciences (OeAW) pursues a non-discriminatory employment policy and values equal opportunities, as well as diversity. Individuals from underrepresented groups are particularly encouraged to apply.