



TECHNISCHE
UNIVERSITÄT
WIEN
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Vienna University of Technology (TU Wien), is located in the heart of Europe, at a place of cultural diversity and practiced internationality. Research, teaching, and learning have been conducted here for the advancement of science and technology for more than 200 years. TU Wien is amongst Europe's most successful universities of technology and, with over 30,000 students and a staff of about 4,600, is Austria's largest research and education institution in the engineering sciences. We announce the opening of

the position for a (full-time)
University Professor in the field of
“Experimental Quantum Technology”

at the Institute of Atomic and Subatomic Physics, at the Faculty of Physics

with contractual employment to start on 01.01.2020.

This is a professorship regulated by § 98 of the 2002 Universities Act (UG)

We are looking for an internationally leading experimentalist working on the realization, manipulation and characterization of complex quantum systems with a vision of technological applications. Possible topics of research may include quantum-optics, -communication, -simulation, -sensing, -metrology, -thermodynamics, -many-body systems, and -information processing using photonic, atomic, ionic, molecular, solid state or hybrid systems.

The applicant's trendsetting scientific profile shall complement and expand on-going research activities at the faculty of physics at TU Wien in the focus area “Quantum Physics and Quantum Technologies”. A connection to the central topics of the quantum flagship initiative is of advantage. We expect the successful candidate to be an international leader in one or several of the areas outlined above with excellent embedding into the global research community, the proven ability to lead an independent research team, and a demonstrated ability to acquire third-party funding.

The professorship is located at the Institute for Atomic and Subatomic Physics (<http://www.ati.ac.at>). We anticipate a close collaboration with groups working at the Institute, as well as at the faculty of Physics and other faculties of TU Wien. Synergies with the Vienna Center for Quantum Science and Technology (<http://vcq.quantum.at>), the Centre for Micro- and Nanofabrication (<http://zmns.tuwien.ac.at>), the Special Research Networks (SFBs) and the doctoral schools (CoQuS, Solid4Fun) are envisioned.

We expect the applicant to be motivated and qualified to contribute substantially to the teaching (in English and in German) in the bachelor and master curriculum of TU Wien (<https://www.physik.tuwien.ac.at/lehre/>) and to get involved in the academic management of the institute and faculty.

Profile of requirements:

- Completed doctoral or PhD studies in the field under consideration from a domestic or equivalent foreign university or research institution (or equivalent scientific qualification)
- Outstanding publication record in internationally recognised academic journals in the fields of work of the professorship
- The qualification for lecturing (*venia docendi*) acquired at a domestic or equivalent foreign university or an academic qualification recognised as equivalent to a qualification as a university lecturer

- Pedagogic and didactic qualification for academic teaching of Physics, in English and in German
- In case the candidate does not yet possess adequate knowledge of German, we expect a willingness to acquire German skills at a level suitable for teaching, for participation in the management of the institute and faculty as well as in university bodies
- International research experience relevant to the field of specialization with national and international reputation as well as skills in networking
- Experience in the acquisition, completion and management of research projects
- Ability and willingness to manage a research division or a research group
- The candidate should ideally have competence and experience in the professional promotion of young scholars and women as well as in the field of gender mainstreaming
- On-site presence is expected

TU Wien offers:

- Excellent working conditions in an attractive research environment
- A strong network of quantum research groups in Austria
- Attractive compensation combined with a supplemental retirement benefit program sponsored by the employer
- Financial support of research activities in the first years (start-up funds); support in moving to Vienna (if required)
- Dual career advice (if required): We offer partners of the university professors appointed to TU Wien various supporting services tailored to their individual situation
- An employee-friendly environment in a city with an extraordinary high quality of life

Classification in the A1 category of the collective bargaining agreement for employees of universities and a minimum salary of EUR 5.130,20/month (14 times a year) is provided for. A higher salary depending on qualifications and experience will be the subject of appointment negotiations.

General Information about

- TU Wien can be found at www.tuwien.at
- the Faculty of Physics can be found at <https://www.physik.tuwien.ac.at/aktuelles/>
- the Institute of Atomic and Subatomic Physics can be found at <http://www.ati.ac.at>

Applications (in English) should include the following documents:

- A detailed curriculum vitae (including professional and academic record)
- A list of publications (including a link to a unique researcher identifier like on ResearcherID, ORCID or Google Scholar)
- A list of teaching and lecturing activities
- Copies of the 5 most important publications with regard to the position announced
- Presentation of previous academic activities as well as a survey of research and development projects carried out and of funding raised
- Motivation letter with a research and teaching plan

TU Wien aims at increasing the share of women, in particular in management functions and in the academic/artistic staff and therefore explicitly encourages qualified women to apply. Female applicants who are equally qualified as the best qualified competing male applicant will be accepted by preference unless personal qualifications of a competing male applicant prevail.

We endeavour to hire handicapped people with corresponding qualifications and therefore expressly encourage them to apply. For more information please contact the counsellor for handicapped persons at TU Wien, Mr Gerhard Neustätter (contact: Gerhard Neustätter, gerhard.neustaetter@tuwien.ac.at, confidentiality is assured).

As a progressive university that is committed to fostering the development and realisation of the individual's potential, TU Wien stands up for equal opportunities, for compatibility of career and family/leisure and for the needs of dual career couples.

We look forward to receiving your complete application documents by **31.07.2019** (date of email or date of postmark) addressed to

Office of the dean
Faculty of Physics
Vienna University of Technology
Wiedner Hauptstraße 8-10, 1040 Wien, Austria
dekphys@tuwien.ac.at

The written application should include a USB flash drive or a CD-ROM containing the complete application documents in a single PDF file.

The Dean

Joachim Burgdörfer