The Institute for Quantum Optics and Quantum Information Vienna (IQOQI-Vienna) of the Austrian Academy of Sciences (ÖAW), Austria’s leading non-university research and science institution, is offering a

**PHD STUDENT POSITION (F*M)**
(part-time, 30h per week)

in the Quantum Communication and Quantum Information Processing Technologies research group led by Rupert Ursin.

The Ursin group’s research interest focuses on “the essence of quantum physics”. It experimentally investigates quantum optical effects and quantum information processes. The expertise lies in the creation, manipulation and detection of entangled photons and all of its applications. One of the most important applications of quantum optics is the promise of unconditionally secure communication for example by exploiting the strange properties of quantum states, especially entangled photons, so one can create an unbreakable cryptographic key between two users ("Quantum Key Distribution", QKD). The Ursin group is on the forefront of this state-of-the-art research field.

For more information of the research activities of the group, see Ursin Group

Now the IQOQI Vienna is offering a PhD student position to a highly motivated and well-qualified student to carry out research within a PhD thesis project in the field of quantum foundations and quantum information theory.

**Your profile:**
- Diploma or Master’s degree physics or related discipline
- Master or diploma thesis in quantum science preferred
- A strong interest in quantum foundations
- Ability to perform involved mathematical calculations
- Excellent English skills

Interested candidates are invited to submit
- a letter describing their research interests,
- a detailed curriculum vitae,
- a grade certificate from master and bachelor studies
- the electronic (email) contact details of at least two potential referees

to iqoqi-personnel@oeaw.ac.at (mentioning Job ID: IQOQIVIE044DOC220) no later than July 3, 2020.

We offer an annual gross salary of € 30,878,40 before taxes based on the salary scheme of the Austrian Science Fund (FWF).

The Austrian Academy of Sciences (ÖeAW) pursues a non-discriminatory employment policy and values equal opportunities, as well as diversity. The ÖeAW lays special emphasis on increasing the number of women in senior and in academic positions. Given equal qualifications, preference will be given to female applicants.