



OeAW - Discovering the future

As a central non-university institution for science and research, the **Austrian Academy of Sciences - OeAW** has the task of "**promoting science in every respect**". Founded in 1847 as a learned society, it now has over 760 members and around 1,800 employees dedicated to innovative basic research, interdisciplinary knowledge exchange and the dissemination of new insights. The OeAW initiates and maintains partnerships worldwide and represents Austria in international scientific organizations; it cooperates with numerous institutions in the scientific field in order to actively **shape the research landscape**.



Praedoc (Diss) (f/m/x)

Job ID: IQOQIIBK055DOC226

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 position as

Praedoc (Diss) (f/m/x)

(part-time, 30h per week)

in the IQOQI junior research group “Theoretical Quantum Simulation” for the project „QS-Gauge“ led by Ass.-Prof. Torsten Zache.

Your Tasks

- Theoretical research in quantum simulation of non-abelian lattice gauge theories
- Contribute to writing scientific publications
- Presenting latest scientific results at conferences and workshops
- Supporting supervision of PhD, master and bachelor students

Your Profile

- Master’s degree in physics with focus on theoretical quantum physics
- Demonstrated experience in at least one of and strong interest in the following subjects
 - o Quantum computing with qudits, quantum error correction
 - o Quantum optics of trapped ions and Rydberg atoms
 - o Numerical tensor network methods
 - o Topological order and (de)confinement in stringnet models
 - o Quantum field theory, lattice gauge theory
- Excellent communications in spoken and written English

Our Offer

- International environment for cutting-edge research in quantum science
- Collaborations with international partners, including both theoretical and experimental colleagues

The minimum annual gross salary for this position is EUR 53.140,92 (full-time based), in accordance with the collective agreement of the Austrian Academy of Sciences (ÖAW). For part-time employment, the salary will be adjusted on a pro rata basis in line with the agreed working hours.

APPLY NOW

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. The OeAW cooperates with NEBA and is a member of MyAbility in order to provide appropriate workplace structures, in particular for persons with disabilities.

Contact

Katrin Nagele | Katrin.Nagele@oeaw.ac.at

IQOQIBK | 6020 Innsbruck, Austria

Österreichische Akademie der Wissenschaften | Austrian
Academy of Sciences | <https://www.oeaw.ac.at/>

