



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: IQOQIIBK148DOC125

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 two positions as

Praedoc (Diss) (f/m/x)

(part-time, 30h per week)

for the project Dual-Species Rydberg Processors led by Prof. Hannes Bernien

Your Tasks

- Performing experimental research on many-body physics and quantum information processing in a dual-species array of atoms coupled to Rydberg states
- Analysis of experimental results and writing scientific publications
- Tutor bachelor and master students
- Representing the group on conferences and workshops via poster presentations and talks
- Supporting the group in administrative tasks

Your Profile

- Master's degree in physics with excellent academic record
- Experience with carrying out quantum physics experiments on cold atoms, or solid state spins, or superconducting circuits, or trapped ions
- Practical experience of experimental techniques such as laser locking, experimental sequences, , data analysis
- Experience in programming, open system simulations, quantum circuits
- Strong background in laser technology, quantum information theory
- 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
<https://www.uibk.ac.at/studium/angebot/phd-physik/index.html.en>

Our Offer

- A position in an innovative and internationally active environment crucial to success
- Numerous voluntary social benefits
- Flex time arrangement
- Opportunity to work independently and develop personally
- An annual gross salary according to the collective agreement of the Austrian Academy of Sciences (OeAW) of € 39.208,79 . (Depending on qualification and experience, the salary can be negotiated.)

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.

Contact

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