



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: IQOQIIBK155DOC125

The Austrian Academy of Sciences (OeAW), Austria's leading non-university research and science institution, is offering a Position as

Praedoc (Diss) (f/m/x)

(part-time, 30h per week)

Your Tasks

- Conduct quantum simulation experiments with trapped ion chains
- The aim of the work is to investigate non-equilibrium quantum dynamics with crystals containing up to 100 ions, in which the ions are coupled to each other via laser-induced long-range effective spin-spin interactions.
- Writing scientific publications
- Tutor bachelor and master students
- Attendance of conferences and workshops
- Supporting the group in administrative tasks

Your Profile

- Master's degree in physics with excellent academic record
- Experience with carrying out experiments on quantum physics laser-cooled neutral atoms or ions and, ideally, practical knowledge of optics, lasers, electronics, and control engineering, as well as a good understanding of quantum physics, in particular quantum optics and quantum information
- Practical experience of experimental techniques such as experiment control, optics and numerical simulations
- Strong background in quantum physics
- 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

- 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 € 39.208,82 before taxes based on the salary scheme of the Austrian Academy of Sciences.

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

The logo of the Austrian Academy of Sciences (ÖAW) is displayed in blue. It features a stylized 'Ö' with two dots above it, followed by 'AW'. The logo is flanked by two horizontal blue bars, one above and one below.