



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**.



PhD Student POSITION (F/M/X)

Job ID: HEPHY042STUD225

The Experimental Particle Physics group, a joint working group of the Institute of Atomic and Subatomic Physics at the Technische Universität Wien and the Institute of High Energy Physics (HEPHY) of the Austrian Academy of Sciences, is a member of the experiments NUCLEUS, searching for coherent elastic neutrino-nucleus scattering, and COSINUS and CRESST, both

searching directly for Dark Matter. The group is a member of the Sonderforschungsbereich “Neutrinos and Dark Matter in Astro- and Particle Physics” (<https://www.sfb1258.de>). We are offering a

PhD Student POSITION (F/M/X)

Working on the coherent Neutrino Scattering Experiment NUCLEUS

(Part-time employee) (30 h per week) for a duration of 4 years, to contribute to the research program of the NUCLEUS experiment (<https://nucleus-experiment.org/>).

Your Tasks

- The successful candidate will analyse data taken with the NUCLEUS experiment during the commissioning phase and physics runs.
- A main aspect of the work will be the improvement of NUCLEUS event reconstruction and event selection using Artificial Intelligence (AI) methods, with application in the subsequent analysis.
- In addition, the application of the AI methods for detector setup, operation, and optimization for NUCLEUS data taking could be performed.
- Contributions to the commissioning and operation of the NUCLEUS experiment at its experimental site in Chooz, France are expected.

Your Profile

- You have, or you will complete until the time of occupation, a master degree in experimental particle physics, and you have a solid background in astroparticle or neutrino physics.
- Solid skills in modern programming languages (with focus on python) are mandatory; experience in data analysis and statistics will be advantageous.
- Very good skills in English communication and writing. Good communication skills and team competencies and innovative ability.

Our Offer

- Exciting tasks in a dynamic international research environment and a young and collegial team.
- Attractive social benefits, flexible work time, downtown Vienna.
- Wide range of internal and external training opportunities, various career options.

The Austrian Academy of Sciences is committed to increasing female employment in leading scientist positions. Qualified female applicants are encouraged to apply and will be given preference if equally qualified. Handicapped persons with appropriate qualifications are also expressly encouraged to apply.

An annual gross salary of € 52.278,38, according to the collective agreement of the Austrian Academy of Sciences is offered for this position.

For further information please contact Prof. Jochen Schieck (Jochen.Schieck@oeaw.ac.at).

Submission of applications by April 30th, 2025; applications received later containing all necessary documents will be considered until the position is filled. Please send your application, including a CV and motivation letter via E-Mail in a single PDF document, arrange for two letters of recommendation and send your application to hephy-office@oeaw.ac.at.

[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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