

The Paul Scherrer Institute PSI is the largest research institute for natural and engineering sciences within Switzerland. We perform cutting-edge research in the fields of future technologies, energy and climate, health innovation and fundamentals of nature. By performing fundamental and applied research, we work on sustainable solutions for major challenges facing society, science and economy. PSI is committed to the training of future generations. Therefore, about one quarter of our staff are post-docs, post-graduates or apprentices. Altogether, PSI employs 2300 people.

For the UCN Physics group in the laboratory for particle physics we are looking for a

Postdoctoral Fellow in fundamental physics with ultracold neutrons

08.08.2025 • Postdoctoral • 3204-01 • 100% 

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Your tasks

You will work on the n2EDM experiment to search for a neutron electric dipole moment, a possible signal of beyond-Standard-Model physics. The apparatus is under commissioning at the ultracold neutron UCN source. You will have the possibility to work on all aspects of the experiment. You will be responsible for the mercury magnetometer system in all aspects of running, maintaining and further development in hard and software. You will take part in the first data taking of the n2EDM experiment and the first n2EDM analysis. You will supervise students on all levels.

Your profile

We seek a talented and ambitious person who is highly motivated to work on this competitive project in fundamental physics in a well-established research team within a large international collaboration.

- You have a PhD degree in physics
- Experience in experimental fundamental physics and/or neutron physics and/or experimental atomic, nuclear or particle physics are considered as an asset
- Ability to work independently is essential
- You are a good team player
- Flexible and multitasking work attitude
- Demonstrated practical experience in experimental work, hardware setup and data analysis; experience with lasers and optics is a plus
- Programming skills are required, and experience with electronic/ mechanical hardware design are considered as plus
- Excellent level of English as working language in spoken and written is mandatory
- Ability to write excellent documentation in English
- Knowledge of German or willingness to quickly learn German is a plus

We offer

Our institution is based on an interdisciplinary, innovative and dynamic collaboration. You will profit from a systematic training on the job, in addition to personal development possibilities and our pronounced vocational training culture. If you wish to optimally combine work and family life or other personal interests, we are able to support you with our modern employment conditions and the on-site infrastructure.

Your employment contract is limited to 2 years.

For further information, please contact Dr. Bernhard Lauss, by email to bernhard.lauss@psi.ch.

Please submit your application online by **15. September 2025** together with the contact addresses of at minimum three professional reference persons and a complete publication list for the position as a Postdoctoral Fellow (index no. 3204-01).

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