

Postdoctoral Fellow in Kagome Lattice and van der Waals
based Quantum Materials
Paul Scherrer Institut

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Posted Aug. 20, 2025, set to expire Dec. 20, 2025

Job Title Postdoctoral Fellow in Kagome Lattice and van der Waals based
Quantum Materials
Department 5232 Villigen PSI
Institution Paul Scherrer Institut
5232 Villigen PSI, Aargau, Switzerland

Date Posted Aug. 20, 2025

Application Deadline Sep. 30, 2025
Position Start Date by arrangement

Job Categories Post-Doc

Academic Field(s) Physics - Condensed Matter/Low Temperature

Job Website <http://www.psi.ch>

Apply Online Here <https://apply.refline.ch/673278/3733/5U8.aM4502KQWyOD2Y.zOe-q84YnXfw5DEOb5TNceo8-T4bm1AKa8g/apply>

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Job Description

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.

To complement our research in Kagome Lattice and van der Waals based Quantum Materials, we are looking for a motivated and talented scientist to push technical and scientific boundaries. You will become part of a vibrant research environment to perform collaborative research on mesoscopic

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physics in Kagome Lattice and vdW 2D systems by magnetic imaging using scanning probe microscopy such as MFM (magnetic force microscopy) and X-ray-based imaging such as XMCD-PEEM (X-ray magnetic circular dichroism-Photoelectron Emission Microscopy) or other techniques.

For the Spectroscopy of Quantum Materials group, we are looking for a

Postdoctoral Fellow in Kagome Lattice and van der Waals based Quantum Materials

Your tasks

- Conduct in-house and large-scale facility experiments
- Write beam-time application proposals
- Analyse scientific data and publish in peer reviewed high impact scientific journals
- Support and maintenance of laboratory equipment
- Collaborate with other scientists overlapping in projects
- Keep good record of the work in lab notebooks and electronic files

Your profile

- PhD degree in physics with solid knowledge of condensed matter physics, quantum mechanics, and magnetism
- Expertise in X-ray based magnetic imaging or scanning probe microscopy for magnetism
- Experience in research on correlated materials and magnetism
- Good software skills to analyse data
- Interest in a wide range of physics and experimental techniques
- You are capable to adapt to new challenges
- You are an independent researcher but at the same time a good team player
- Proficiency in English both spoken and written

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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 initial employment contract is limited for 1 year, with the option of extension.

For further information, please contact Dr Yona Soh by email yonasoh@psi.ch.

Please submit your application online by **30 September 2025** (including list of publications and addresses of referees) for the position as a Postdoctoral Fellow (Index-Nr. 6516-01).

Paul Scherrer Institute, Human Resources Management, Mariusz Prus, 5232 Villigen PSI, Switzerland
www.psi.ch

Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

Contact Paul Scherrer Institut, Sevil Minniti
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