


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.

The Advanced Lithography and Metrology and the Quantum Photon Science Groups in the Laboratory for X-ray Nanoscience and Technologies are looking for a

PhD Student in Optical and Electrical Measurements of Quantum Devices

09.09.2025 • Doctoral • 6217-02 • 100% 

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Your tasks

- Conceptualisation and design of state-of-the-art quantum nanostructures and devices, based on Rydberg states in silicon, within a team of scientists and students
- Characterisation of these nanostructures and devices using optical and electrical transport methods at cryogenic temperatures
- Publication and presentation of high-quality research in peer-reviewed journals and international conferences

Your profile

- You have a master's degree in physical science or engineering, with a focus on quantum mechanics and/or condensed matter physics
- You have a keen interest in experimental research in quantum technologies and nanoscience
- You are a highly motivated team player with good communication skills
- Experience in some of the following fields will be of advantage: quantum science and engineering, transport measurements and optics

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.

For further information, please contact Dr Yasin Ekinici, yasin.ekinci@psi.ch, +41 56 310 28 24.

Please submit your application online by **09. October 2025** (including addresses of referees) for the position of a PhD Student (index no. 6217-02).

Paul Scherrer Institute, Human Resources Management, Serdal Varol, 5232 Villigen PSI, Switzerland