

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 Advanced Lithography and Metrology Group in the Laboratory for X-ray Nanoscience and Technologies we are looking for a

PhD Student in Fabrication of Quantum Devices

26.08.2025 • Doctoral • 6217-01 • 100% 🔗

[Apply online now](#)

Your tasks

- Development of scalable fabrication methods of quantum nanostructures and devices using EUV lithography and e-beam lithography
- Close cooperation with other team members of the team and contribute to conceptualization, design, and characterization of the devices
- Performing research of highest quality and publication in high impact factor journals and international conferences

Your profile

- You have a master's degree in science or engineering
- You have a keen interest in applied research in quantum technology and nanoscience
- You are looking for new challenges and you are eager to learn new methods
- You are a highly motivated team player with good communication skills
- Experience in some of the following fields will be of advantage: nanolithography, quantum science and engineering, optics, nanocharacterization methods such as, STM, AFM, and SEM

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, phone +41 56 310 28 24.

Please submit your application online by **25. September 2025** (including addresses of referees) for the position as a PhD Student (index no. 6217-01).

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