


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.

Within the Laboratory of Radiochemistry, the Isotope and Target Chemistry Group conducts innovative, high-impact research on radionuclide production, radiochemical separations, nuclear data, target and source development, and the behaviour of radionuclides in complex systems relevant to advanced reactor technologies and nuclear medicine.

For the Isotope and Target Chemistry Group we are looking for a

PhD Student in Radiochemistry

27.10.2025 • Doctoral • 4702-25173 • 100% 

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Your tasks

The PROACTIVE Project (Production of RadiOlanthanides for Advancing Cancer Therapy, InVestigations through Enhanced Efficacies) will focus on the development and optimization of large-scale production and purification methods for Auger electron- and beta-emitting radiolanthanides, aiming to achieve the quality required for their application in targeted radionuclide therapy. Experimental activities will involve the production of the desired radiolanthanides at the PSI Injector II cyclotron, the Swiss Spallation Neutron Source (SINQ), and facilities of partner institutes such as the Institut Laue-Langevin (ILL), as well as the measurement of production yields and the determination of side products. The work will encompass an in-depth investigation of lanthanide separation methodologies employing a range of complexing agents and chromatographic resins.

The candidate will be enrolled in the Doctoral Program in Chemistry at the University of Bern, with teaching duties, and will have the opportunity to present research at leading national and international conferences, publish results in high-impact, peer-reviewed journals and co-supervise students.

Your profile

You hold a master's degree in analytical or inorganic chemistry, or in a related discipline. You are motivated, hands-on, and eager to work experimentally on a challenging and interdisciplinary topic. Previous experience in radiochemistry or nuclear science is an asset but not a requirement. You enjoy collaborating within a multidisciplinary and international research environment and possess good communication skills in English, both written and spoken.

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. Zeynep Talip, phone +41 56 31 2486.

Please submit your application online by **5 January 2026** (including CV, list of publications, motivation letter and references) for the position as a PhD Student (Index-Nr. 4702-25173).

Human Resources Management, Pascale Bärtschi, 5232 Villigen PSI, Switzerland