



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 matter and materials, energy and environment and human health. 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 2100 people.

For our Institute we are looking for a

Postdoctoral Fellow

convergent beam electron diffraction

Your tasks

You will participate in developing new methods of convergent beam electron diffraction CBED and electron ptychography for high-resolution imaging. The developed methods will be applied for imaging 2D crystals, such as graphene, and noncrystalline samples such as individual macromolecules. The project will include theory, simulations, CBED, ptychography experiments, and data analysis.

Your profile

We are looking for an enthusiastic person with PhD degree in physics, chemistry, materials science or a related field. A track record in electron imaging is an advantage. Good knowledge of theoretical physics, condensed matter physics, scattering theory, optics, as well as programming skills for numerical simulation and data analysis are a plus. You are highly motivated, creative, have excellent team and communication skills. Good command of English is necessary.

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.

Paul Scherrer Institut

Human Resources Management
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For further information, please contact PD Dr
Tatiana Latychevskaia, phone +41 56 310 46 79.

Please submit your application online by
30 November 2021 (including list of publications
and addresses of referees) for the position as a
Postdoctoral Fellow (index no. 2411-00).