



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 the Microscopy and Magnetism Group at the Swiss Light Source we are looking for a

## PhD Student

### In near-infrared and X-Ray spectroscopy of single-molecule magnets

#### Your tasks

- To prepare monolayers of surface adsorbed molecular magnets in ultra high vacuum and to study them using X-Ray magnetic circular dichroism (XMCD) and other techniques
- To perform near infrared optical studies of molecular magnets using Fourier-transform and laser spectroscopy
- To analyze and publish the results in well respected scientific journals

You will be enrolled at the University of Basel, and your main working place will be at PSI Villigen.

#### Your profile

You hold a Master degree in physics or physical chemistry. You are highly motivated, experimentally skilled and interested in optics and magnetism. Furthermore you have good English communication skills. Ideally you have prior experience in the fields of laser or X-Ray absorption spectroscopy, molecular magnetism or surface science.

#### 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.

**Paul Scherrer Institut**  
Human Resources Management,  
Sabrina Orteca,  
Forschungsstrasse 111,  
5232 Villigen PSI, Switzerland,  
[www.psi.ch](http://www.psi.ch)

For further information please contact Dr. Jan Dreiser, phone +41 56 310 58 95.

Please submit your application online (including addresses of referees) for the position as a PhD Student (index no. 6313-01).