



# INTERNSHIP OFFER

## CH-2025-000047

Villigen PSI, Switzerland

ON-SITE

### INTERNSHIP HOST

Name of Company  
Paul Scherrer Institut

Website  
www.psi.ch

Address of Company  
Villigen PSI  
Switzerland

Number of Employees  
2300

Business or Product  
Research

### STUDENT REQUIRED



General Discipline  
Chemistry and Chemical  
Engineering; Material  
Engineering and  
Sciences; Physics and  
Physical Sciences

Field of Study

Completed Years of Study  
3

Language Required  
English Good (B1, B2) Or  
German Good (B1, B2)

Required Qualifications and Skills

Ideally you are or will be enrolled in a Master program in materials science, physics, physical chemistry or a related field. An interdisciplinary background is of advantage. Good skills in experimental physics and/or physical chemistry required.

Student Status Requirements  
Enrolled during whole internship; with EU/EFTA passport also possible between BSc and MSc

Other Requirements/Information  
You enjoy working in a small team of scientists with different backgrounds. High curiosity for natural sciences on the quantum and nanoscale.

### INTERNSHIP OFFER



10 - 16  
weeks

Latest Possible Start Date  
20-Oct-2025

Within Months  
Mar-2025 - Dec-2025

Company Closed Within  
-



2100 CHF  
per Month

Deductions Expected  
approx. 10 % Social security AHV/IV

Payment Method



900 CHF  
per Month

Arranged by  
Employer

Estimated Cost of Living including Lodging  
1750 CHF / Month

Working Environment: Research and development

Working Hours / Week: 42.0

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.

Project Description

We investigate the exciting physical and chemical properties of atoms and molecules assembled into novel surface-supported low-dimensional materials. We learn about the assembly of 2D layers and 1D chains with atomic precision by on-surface supramolecular engineering. You will study the structural, electronic and magnetic properties of such supramolecular assemblies made from different organic compounds coordinated by coordination ad-atoms on surfaces. The work shall be performed in the surface science laboratory at PSI (<https://www.psi.ch/lmn/surface-science-lab>). We will use spectro-microscopy correlation to explore and exploit the electronic/magnetic structure of these specifically synthesized on-surface layers or chains. This will be performed via scanning tunneling / scanning force microscopy and spectroscopy (STM/S, SFM/S) in combination with the more spatially averaging techniques of photoelectron (XPS/UPS). You will learn to prepare samples and analyze them both at ambient conditions and in ultra-high vacuum using these techniques.

### ADDITIONAL INFORMATION

Any student with Non-EU/EFTA nationality needs an official letter from their university, confirming that the internship is compulsory (required for visa/work permit).

**Deadline for Nomination - 15-Mar-2025**