



INTERNSHIP OFFER

Ref. No. CH-2024-000016

Internship Host Information

Internship Host: Paul Scherrer Institut
Forschungsstrasse 111
5232 Villigen PSI
Switzerland

Website: www.psi.ch

Location of placement: 5232 Villigen
Nearest airport: Zurich
Working hours per week: 41.0
Working hours per day: 8.2

Number of employees: 2200

Business or products: Research

Student Required

General Discipline: ELECTRICAL AND ELECTRONICS ENGINEERING

Completed years of study: 2

Field of Study:

Student status requirements: Enrolled during internship; with EU/EFTA passport also possible between BSc and MSc

Language required: English Good (B1, B2) Or
German Good (B1, B2)

Required Qualifications and Skills:

Python

Other requirements:

Programming experience with Python (preferred) or C++ or Matlab

Internship Offered

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 2200 people.

Join the Photon Science Division (PSD) Detectors Group of the Paul Scherrer Institut (PSI) as trainee and contribute to the development of cutting-edge X-ray detector technology. We are seeking an individual with an interest in data acquisition and analysis to focus on characterizing Analog-To-Digital Converters (ADCs) ASICs.

Your responsibilities will encompass acquiring data using a digital oscilloscope and an established data acquisition system, coupled with conducting data analysis via Python/C/Matlab to evaluate various ADCs designed by our team. This position offers a unique opportunity to understand the basis of electronics and to work in close collaboration with our detector experts.

Ideal start from September, when we will have a new ASIC prototype from our ongoing project. Ideally, a student starting in September could focus on characterizing this new ASIC.

An earlier start is possible, if the student can stay at least until the end of September 2024. You will begin by characterizing an existing ASIC and having all programs for data analysis ready, transitioning to the new one in September.

Number of weeks offered: 12 - 26

Within the months: 01-SEP-2024 - 28-FEB-2025

Or within: -

Company closed within: -

Working environment: Research and development

Gross pay: 2100 CHF / Month

Deduction to be expected: approx. 10 % Social security AHV/IV

Payment method / time of first / payment:

Latest possible start date: 01-NOV-2024

Accommodation

Canteen at work: Yes

Expected type of accommodation: Guest house

Accommodation will be arranged by: Employer

Estimated cost of lodging: 900 CHF / Month

Estimated cost of living incl. lodging: 1750 CHF / Month

Additional Information

Students with any NON-EU/EFTA nationality need for the visa and work permit an official letter from their university, confirming that the internship is compulsory (IAESTE Switzerland will apply for them).

Nomination Information

Deadline for nomination: 09-APR-2024

Date: 30-MAR-2024

On behalf of receiving country:

IAESTE Switzerland