



WORK OFFER

Ref. No. CH-2020-000042

Employer Information

Employer: Paul Scherrer Institut
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OVGA/301
5232 Villigen PSI
Switzerland

Website: www.psi.ch

Location of placement: 5232 Villigen
Nearest airport: Zurich
Working hours per week: 41.5
Working hours per day: 8.3

Number of employees: 2000

Business or products: Research and Development

Student Required

General Discipline: 14A-ENGINEERING, Other
40B-PHYSICS

Completed years of study: 2

Field of Study:

Student status requirements: Bachelor, between Bachelor and Master or Master students

Language required: English Good Or
German Good Or
French Good

Required Knowledge and Experiences:

You have a sound knowledge of at least one of the following fields: radiation induced activation, radiation detection techniques, material analysis methods, data acquisition and data treatment.

Other requirements:

A basic knowledge of the Swiss radiological protection regulations and/or programming experience would be an asset. English or German language skills preferred.

Work Offered

Improvement of radiological material characterization methods

Description

Operating particle accelerator facilities and nuclear installations can cause radioactive material. In the framework of clearance of material from regulatory control, the chemical as well as the radiological material characterization plays a key role. In these characterization processes precise measurements, reliable data acquisition and an accurate result analysis are essential elements. The section Expertise and Analytics of the Department of Radiation Safety and Security seeks a student that supports within the process of improving the radiological material characterization.

Tasks

The conception and construction of a measurement test bench is an important step for the material characterization of radioactive material. Your task will be to plan and perform measurement campaigns with highly specialized and precise measurement devices. Measurement campaigns will be conducted in the field of material analysis, i.e. by X-ray fluorescence analysis, as well as in the field of radiation detection, i.e. using scintillation or solid-state detectors. The evaluation of the acquired data is also included in the project. Work can be adapted to your profile and preferences.

Number of weeks offered: 8 - 12

Working environment: Research and development

Within the months: 01-MAY-2020 - 30-NOV-2020

Gross pay: 2100 CHF / Month

Or within: -

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

Company closed within: -

Payment method / time of first / payment:

Latest possible start date: 01-SEP-2020

Accommodation

Canteen at work: Yes

Expected type of accommodation: Depends on the availability in their guesthouse, shared room

Estimated cost of lodging: 750 CHF / Month

Accommodation will be arranged by: Employer

Estimated cost of living incl. lodging: 1600 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: 15-MAR-2020

Date: 30-JAN-2020 **On behalf of receiving country:** Sabine Lenz