



WORK OFFER

Ref. No. CH-2020-000028

Employer Information

Employer: Empa
Building Energy Materials and Components
Ueberlandstrasse 129

8600 Duebendorf
Switzerland

Website: <https://www.empa.ch/web/s312/overview>

Location of placement: Duebendorf
Nearest airport: Zuerich
Working hours per week: 41.0
Working hours per day: 8.2

Number of employees: 1000

Business or products: National research laboratory

Student Required

General Discipline: 40C-CHEMISTRY, MATERIAL SCIENCE, AND
CHEMICAL ENGINEERING

Completed years of study: 2

Field of Study:

Student status requirements: Need to be enrolled during the internship

Language required: English Good Or
German Good

Required Knowledge and Experiences:

Other requirements:

Latest possible start date 15 June so that there is an overlap with previous intern.

BUT start beginning of June highly preferred

Work Offered

The trainee will assist in the development and characterisation of prototypes of high-performance insulation materials based on aerogel. The goal is to develop materials for products that can be applied in the building and construction sector. Hence the development takes into account market demands and economic considerations. The prototypes will be mainly based on aerogel materials that are going to be compounded using different organic and inorganic binder systems. The trainee will execute and evaluate different binding procedures and characterise the samples produced. The characterisation consists of measurements of thermal conductivity, mechanical strength as well as the determination of humidity uptake. Occasionally, samples will be upscaled or integrated in prototypes of building components of sizes around 0.5 to 1 meter. Ideally, the trainee will have a solid background in material science or chemical or mechanical engineering. Furthermore, a certain craftsmanship or hands-on aptitude as well as initiative in developing new ideas will be very valuable for the daily research and development as well as testing procedures.

Number of weeks offered: 42 - 52

Within the months: 01-APR-2020 - 31-MAY-2021

Or within: -

Company closed within: -

Latest possible start date: 15-JUN-2020

Working environment: Research and development

Gross pay: 2000 CHF / Month

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

Payment method / time of first / payment:

Accommodation

Canteen at work: Yes

Expected type of accommodation: Shared flat in institute guesthouse

Estimated cost of lodging: 810 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