



WORK OFFER

Ref. No. BE-2023-053-VUB

Employer Information

Employer: VUB - IR - MACH - FYSC
FYSC
Pleinlaan 2

1050 Brussel
Belgium

Website: <http://www.vub.ac.be/MACH/FYSC/>

Location of placement: Physical Chemistry and Polymer Science
Nearest airport: Brussels International Airport Zaventem
Working hours per week: 38.0
Working hours per day: 7.6

Number of employees: 35

Business or products: Research and Development

Student Required

General Discipline: AGRICULTURE AND FOOD SCIENCE; CHEMISTRY AND CHEMICAL ENGINEERING; MATERIAL SCIENCES AND ENGINEERING Completed years of study: 4

Field of Study:

Student status requirements: Student status during the entire stay is mandatory: please include a Certificate of Enrollment with the nomination.

Language required: English Excellent (C1, C2) Or Dutch Excellent (C1, C2)

Required Qualifications and Skills:

Research | Report Writing | Laboratory Work | Communication

Other requirements:

As a minimum the application should contain a CV, motivation letter, past diplomas and score sheets.
The applicant will be interviewed to evaluate the student and to match interests.

If trainee does not have EEA or Swiss nationality and wants to stay more than 90 days, he/she must register as an exchange student at the university.

In addition to the theoretical knowledge obtained throughout the first 4 years of the study, practical laboratory skills are a plus.

Furthermore, the following skills are required:

- Reporting tools: Word, PPT or equivalent
- Calculating tools: Excel, Matlab or equivalent

Work Offered

The FYSC research group has started a new line of research that studies bio-based materials. This work is performed in close collaboration with other research groups at VUB and at other Belgian universities that excel in the synthesis of bio-based materials. At FYSC the focus is on the characterization (chemical, thermophysical, mechanical) of these materials, aiming to unravel their structure-property relations. These relations can then be exploited to improve the properties of bio-based materials to replace traditional, often unsustainable, materials in various applications such as packaging, architecture & design and medical applications. You will assist in FYSC's current research activities on different levels, based on your previous experience, interests and needs within the research group. The work may include several of the following activities:

- Synthesis of bio-based materials;
- Characterization of biomaterials using chemical, thermophysical and mechanical analysis methods;
- Improvement of existing processing techniques and/or development of new processing and manufacturing techniques for biomaterials for current and new applications;
- Life cycle analysis of material synthesis, production, application and end-of-life;

We are looking for people interested in materials research and innovation, who work well in a team, yet able to focus independently on their respective tasks. Researchers ought to be curious, studious and ambitious. In innovative research it is important to think outside the box, and to have a critical mind and strong analytical skills. Experience with polymer science, synthesis or applications is a plus.

Number of weeks offered: 12 - 24

Within the months: 02-OCT-2023 - 27-SEP-2024

Or within: -

Company closed within: 23-DEC-2023 - 02-JAN-2024

Latest possible start date: 01-JUL-2024

Working environment: Research and development

Gross pay: 250 EUR / Week

Deduction to be expected: 0

Payment method / time of first payment: Bank Transfer / First week

Accommodation

Canteen at work: Yes

Expected type of accommodation: Student dormitory

Estimated cost of lodging: 125 EUR / Week

Accommodation will be arranged by: Trainee with the help of the LC.

Estimated cost of living incl. lodging: 250 EUR / Week

Additional Information

Nomination Information

Deadline for nomination: 2023-08-14

Date: 20-JUL-2023 On behalf of receiving country: IAESTE Belgium