



INTERNSHIP OFFER

Ref. No. CZ-2024-020017

Internship Host Information

Internship Host: University of Chemistry and Technology, Prague
Technicka 5
166 28 Prague 6
Czech Republic

Website: www.vscht.cz

Location of placement: University of Chemistry and Technology Department of Biomimetic engineering, Technicka 160 00 Prague 6 Czech Republic
Nearest airport: Vaclav Havel airport
Working hours per week: 40.0
Working hours per day: 8.0

Number of employees: -
Business or products: Research and education

Student Required

General Discipline: BIOLOGICAL AND BIOMEDICAL SCIENCES;
CHEMISTRY AND CHEMICAL ENGINEERING;
MATERIAL SCIENCES AND ENGINEERING

Completed years of study: 3

Field of Study: Biomedical Sciences, General.;Pharmacology.;
Chemical and Biomolecular Engineering.;Materials
Engineering.;Chemistry, General.

Student status requirements: required during the whole period of internship

Language required: English Good (B1, B2)

Required Qualifications and Skills:

Scientific Research | Microsoft Office | Laboratory Work

Other requirements:

Interview may be required.
Student can be asked to write a final report at the end of the internship.
The student will be only paid for the days he/she actually spends at work.
Renumeration is not granted for weekends and holidays.

Material synthesis - polymers, nanoparticles

Internship Offered

The offered project is in the field of particle technology with the aim to encapsulate precursors of enzymatic reaction (enzyme and substrate) into a polymer matrix. It will be studied how the composition and architecture of the final material influence enzyme kinetics and kinetics of antimicrobial product formation and release. Trainee will learn different methods of particle synthesis (i.e., emulsion polymerization, spray drying, microencapsulation); characterization (size distribution, morphology, and texture properties) as well as antimicrobial effect evaluation of particles against various microbes. Trainee will work in the team with other students and will have access to laboratories dedicated to polymer synthesis (chemical labs), microbiology labs, and the equipment for characterization (scanning electron microscope, static and dynamic light scattering for size evaluation, spectrophotometers for kinetic studies, etc.).

Number of weeks offered: 12 - 12

Working environment: Research and development

Within the months: 01-JUN-2024 - 30-SEP-2024

Gross pay: 11000 CZK / Month

Or within: -

Deduction to be expected: None

Company closed within: -

Payment method / time of first payment: Cash / 13th of the month

Latest possible start date:

Accommodation

Canteen at work: No

Expected type of accommodation: Student dormitory

Estimated cost of lodging: 5500 CZK / Month

Accommodation will be arranged by: IAESTE

Estimated cost of living incl. lodging: 11000 CZK / Month

Additional Information

Please follow the instructions for preparing the nomination documents and the visa process in the attached document. These documents are only for you and your student, please don't include them in your student's nomination!
Due to time constraints, we can only accept students who do not require a visa.

Nomination Information

Deadline for nomination: 10-MAY-2024

Date: 22-APR-2024

On behalf of receiving country: IAESTE Czech Republic