



INTERNSHIP OFFER

Ref. No. CZ-2024-020007

Internship Host Information

Internship Host: Institute of Chemical Process Fundamentals of the CAS, v. v. i.
Website: www.icpf.cas.cz
Rozvojova 135
165 02 Prague
Czech Republic

Location of placement: Prague
Nearest airport: Vaclav Havel Airport, Prague
Working hours per week: 40.0
Working hours per day: 8.0

Number of employees: 200

Business or products: Chemical Process Fundamentals

Student Required

General Discipline: CHEMISTRY AND CHEMICAL ENGINEERING
Field of Study: Chemical Engineering.

Completed years of study: 5
Student status requirements: required when nominated
Language required: English Fair (A2)

Required Qualifications and Skills:

Microsoft Office | MATLAB

Other requirements:

Systematic and creative approach to scientific research, teamwork ability

Master degree in chemical or mechanical engineering or in physical chemistry, programming MATLAB (not compulsory, but recommended).

Internship Offered

The project aims to determine the influence of surfactants on the dynamics of processes in multiphase systems where bubbles are the typical dispersed phase. The movement and coalescence of bubbles will be characterized for selected surfactants. The typical work will include measurements of interfacial rheology, observations of bubble dynamics by high-speed camera and physical interpretation of results. Gas-liquid contact systems are responsible for the success of many industrial processes, such as flotation, or aerated reactors. Surfactants with their ability to lower the interfacial tension between gas-liquid phases, alter the behaviour of many multiphase processes, and for many systems, the characterization of the interface by surface tension alone is not enough and less conventional measurements of surface rheology and SAS adsorption/desorption characteristics are crucial.

Number of weeks offered: 12 - 13
Working environment: Research and development
Within the months: 01-SEP-2024 - 30-NOV-2024
Gross pay: 14500 CZK / Month
Or within: -
Deduction to be expected: 0
Company closed within: -
Payment method / time of first payment: Cash / 13th of the following month
Latest possible start date: 01-OCT-2024

Accommodation

Canteen at work: Yes
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.
Depending on your visa situation, we may have to shorten the internship to be less than 90 days.

Nomination Information

Deadline for nomination: 10-MAY-2024

Date: 22-APR-2024 **On behalf of receiving country:** IAESTE Czech Republic



IAESTE

Czech Republic

Nomination guide for applications to the Czech Republic

Dear student,

the purpose of this document is to provide guidance for the preparation of your nomination documents for the internship in the Czech Republic. Please follow the steps listed below, before sending your nomination to us.

Structure of nomination documents

All documents must be in **English**.

The final nomination document needs to have sections listed below, please keep the order of individual sections as listed. Before sending your nomination please check if all the pages have the same size.

1. *Work offer*
 - i. The original document that is available on Exchange Platform
2. *Student nomination*
 - i. Use the digital version of the document and not one that is filled out by hand
 - ii. Make sure the dates and duration you selected to fit into those specified in the work offer
3. *Motivation letter**
 - i. Focus on the work-related information
 - ii. At most 1 page
4. *CV**
 - i. Use a structured form of CV
 - ii. At most 2 pages
5. *Transcript of records*
 - i. The document must be in English, verified by your university (stamp and signature needed)
 - ii. Grade scale must be included
6. *Language certificate*
 - i. Do not upload certificates older than 2 years
 - ii. Upload certificates for all languages required by work offer
7. *Confirmation of enrollment*
 - i. Work offer may require this document to be valid throughout the whole period of internship
 - ii. The document must be in English, verified by your university (stamp and signature needed)
8. *Recommendation letter *(only if required by the employer)*
9. *Scan of valid passport/ID*
 - i. Page with the travel documents should be placed on a page with size as the rest of documents
 - ii. The travel document should be placed in the upper left corner
10. *Passport-sized photo*
 - i. The Photo should be added in the same way as your travel documents
 - ii. Use a formal picture, no photos with friends or holiday pictures!

Any other relevant (!!) documents should be added to the end of the nomination document.



IAESTE

Czech Republic

*Beware the motivation letter and CV are the only documents written solely by you. Make sure these documents contain information relevant to the employer and check for any grammar mistakes.

All documents should be combined into one PDF, sent using the Exchange Platform. Documents sent using other ways of delivery will not be considered as proper nomination documents and will not be processed in compliance with General Data Protection Regulations (GDPR).

Visa process

Listed below you will find government websites dedicated to the visa process. Keep in mind that this process usually takes a quite long time, apply for your visa as soon as possible. Thanks to accreditation by MEYS, you can apply for a student visa. Upon acceptance by the employer, we will support your claim for a student visa with an invitation letter and confirmation of accommodation.

- ❖ Visa is not required for citizens of the EEA (EU, Switzerland, Liechtenstein, Iceland, Norway)
- ❖ Short-term Schengen visa (up to 90 days)
 - Countries with a visa exception
 - Countries with a visa obligation
- ❖ Long term visas (over 90 days) are obligatory for all countries except for EEA countries.