



WORK OFFER

Ref. No. CZ-2020-020009

Employer Information

Employer: University of Chemistry and Technology, Prague
Technická 5

166 28, Prague 6
Czech Republic

Website:

Location of placement: Prague
Nearest airport: Prague
Working hours per week: 40.0
Working hours per day: 8.0

Number of employees: 1000

Business or products: Research and education

Student Required

General Discipline: 26-BIOLOGICAL AND BIOMEDICAL SCIENCES
40A-PHYSICAL SCIENCES, Other
40C-CHEMISTRY, MATERIAL SCIENCE, AND
CHEMICAL ENGINEERING

Completed years of study: 3

Field of Study: 26.0202-Biochemistry.
26.1201-Biotechnology.
14.0701-Chemical Engineering.
40.0506-Physical Chemistry.

Student status requirements: Required when nominated.

Language required: English Good

Required Knowledge and Experiences:

Basic skills in the lab and basic skills in programming (Fortran, Matlab or similar) are welcome.

Other requirements:

Finished bachelor or current/finished master in chemistry/chemical engineering/biotechnology is expected.
Skype interview can be required. Student can be asked to write a final report at the end of the internship.

Work Offered

We offer a research project in the field of nonlinear dynamics of complex biochemical/enzyme reactions with focus on mimicking rhythmic phenomena found in circadian/metabolic rhythms of photosynthesizing cyanobacteria, which are studied in a collaborating lab. The project involves a combination of laboratory and theoretical work employing an enzyme reaction in a flow reaction cell. In particular, we will use the urea-urease reaction, which displays oscillations of pH in a membrane flow-reactor. The reactor and equipment for experiments are available. For the theoretical part, the theory of reaction networks will be used to construct a mathematical model, which will be studied using our program Cont for the analysis of stability and bifurcations. Proportions of the experimental and theoretical parts are flexible, depending on the research interests of the student. The project is standalone but there will be a postdoctoral student available all the time in the lab.

Number of weeks offered: 6 - 8

Within the months: 13-SEP-2020 - 11-DEC-2020

Or within: -

Company closed within: -

Working environment: Research and development

Gross pay: 2500 CZK / Week

Deduction to be expected: 0

Payment method / time of first payment: Cash / monthly

Latest possible start date: 04-OCT-2020

Accommodation

Canteen at work: Yes

Expected type of accommodation: Student dormitory

Accommodation will be arranged by: IAESTE

Estimated cost of lodging: 5000 CZK / Month

Estimated cost of living incl. lodging: 10000 CZK / Month

Additional Information

Please follow the instructions for preparing nomination documents and the visa process in the attached document.

Nomination Information

Deadline for nomination: 15-MAR-2020

Date: 31-JAN-2020

On behalf of receiving country: Milan Solik



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.



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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.