INTERNSHIP OFFER
CZ-2026-020023

UCT Prague, Czech Republic

ON-SITE

INTERNSHIP HOST

Name of Company
University of Chemistry and Technology Prague
Inorganic Chemistry

Website
www.vscht.cz

Address of Company
Hlavní město Praha
Czech Republic

Number of Employees
1230

Business or Product
Chemistry university

STUDENT REQUIRED

General Discipline
Chemistry and Chemical Engineering

Field of Study
General;Analytical Chemistry;Inorganic Chemistry;Organic Chemistry

Completed Years of Study
2

Language Required
English Good (B1, B2)

Required Qualifications and Skills
Research | Python | Chemical Processing | Material and Surface Science | Chemical EngineeringTwo types of candidates are welcome to apply:
1) a synthetic chemist focusing on coordination chemistry, designing ligands together with basics in analysis of samples - UV-Vis, FT-IR, 1H-NMR etc.
2) a computational chemist focusing on the DFT calculations especially on coordination compounds

Student Status Requirements
Required during the whole period of internship

Other Requirements/Information
Interview may be required
Only students who do not need a visa for EU may apply

INTERNSHIP OFFER

6 - 6 weeks

Latest Possible Start Date
20-Apr-2026
Within Months
Feb-2026 - May-2026
Company Closed WIthin
-

14000 CZK per Month

Deductions Expected
0
Payment Method
Cash

5500 CZK per Month

Arranged by
IAESTE
Estimated Cost of Living including Lodging
12000 CZK / Month

Working Environment: Research and development

Working Hours / Week: 40.0

The project will focus on coordination compounds for DNA intercalation and DNA photooxidation. Two types of candidates could apply: a) a synthetic chemist and b) a computational chemist.
For a synthetic chemist, the research will focus on the synthesis of novel ligands and their complexes. Electrochemical and spectroelectrochemical methods will be used to determine reduction potential and localization of reduction. Those results will be compared with the values for the (photo)oxidation of DNA. The synthesized compounds will be analyzed by analytical techniques - UV-Vis, FT-IR, and 1H NMR.
For a computational chemist, the research will focus on the benchmark calculations of selected ligands incorporated in the coordination sphere. The nature of HOMO and LUMO will be determined for all possible complexes, and the excited state will be also calculated. The output of this project will be the design of suitable compounds for DNA oxidation.

ADDITIONAL INFORMATION

Please follow the instructions for preparing nomination documents and the visa process in the attached document. This document is intended only for you and your student; please do not include it in the student's nomination.
IAESTE provides accommodation in a student dormitory, where interns are housed in shared double rooms with same-sex roommates. If the intern prefers a single room, they are responsible for arranging alternative accommodation independently.

Deadline for Nomination - 2026-02-25

Date - 24-Feb-2026

Republic