



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 Engineering Two 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

INTERNSHIP OFFER



6 - 6
weeks



14000
CZK
per Month



5500 CZK
per Month

Latest Possible Start Date

26-Oct-2026

Within Months

Sep-2026 - Dec-2026

Company Closed Within

-

Deductions Expected

0

Payment Method

Cash

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 - 2026-05-11

