



WORK OFFER

Ref. No. PL-2021-ZUT019

Employer Information

Employer: West Pomeranian University of Technology, Faculty of
Chemical Technology and Engineering
al. Piastow 42

71-065 Szczecin
Poland

Website: www.wtiich.zut.edu.pl

Location of placement: Szczecin
Nearest airport: Szczecin (SZZ), Berlin (BER, SXF)
Working hours per week: 40.0
Working hours per day: 8.0

Number of employees: 500

Business or products: Education, research

Student Required

General Discipline: CHEMISTRY AND CHEMICAL ENGINEERING

Completed years of study: 3

Field of Study: Chemical Engineering.; Chemistry, General.

Student status requirements: Required during the whole period of the internship

Language required: English Good (B1, B2)

Required Knowledge and Experiences:

Basic knowledge in the field of organic synthesis

Other requirements:

Work Offered

The internship aims to modification of the pharmaceutical active compound or cosmetic ingredient by forming the series of its ionic pairs with different ions of natural and synthetic origin and characterization of the formed combinations.

The first step will be literature review and choice of counterions for pharmaceutical or cosmetic ingredient.

Then will be the preparation of ionic pairs in the laboratory, identification (NMR, FTIR, elemental analysis) and verification of their purity.

The next step will be determination of physicochemical properties, such as thermal stability (thermogravimetric analysis), temperatures of phase transitions (by differential scanning calorimetry) and solubility in water/aqueous solutions of different pH and comparison with properties of parent pharmaceutical/cosmetic compound. Compatibility with the various ingredients of the pharmaceutical or cosmetic formulations will be also assessed. The results will be elaborated as scientific report.

Number of weeks offered: 13 - 13

Working environment: Research and development

Within the months: 31-JAN-2022 - 01-MAY-2022

Gross pay: 1200 PLN / Month

Or within: -

Deduction to be expected: 0%

Company closed within: -

Payment method / time of first payment: Bank Transfer / Monthly

Latest possible start date:

Accommodation

Canteen at work: No

Expected type of accommodation: Student dormitory

Estimated cost of lodging: 400 PLN / Month

Accommodation will be arranged by: IAESTE

Estimated cost of living incl. lodging: 1200 PLN / Month

Additional Information

Nomination Information

Deadline for nomination: 31-MAR-2021

Date: 25-JAN-2021

On behalf of receiving country: Kinga Urbanek