WORK OFFER

Employer Information

Employer: Biognosys AG
R&D
Wagistrasse 25
8952 Schlieren Switzerland

Website: www.biognosys.com

Location of placement: Schlieren ZH
Number of employees: 35

Business or products: Contract research, kits and software in proteomics

Working hours per week: 42.0

Working hours per day: 8.4

Student Required

General Discipline: 26-BIOLOGICAL AND BIOMEDICAL SCIENCES
40-PHYSICAL SCIENCES

Study level: End (7 Semesters and over)

Field of Study:
26.0202-Biochemistry
26.0204-Molecular Biology
26.0205-Molecular Biochemistry
26.0210-Biochemistry and Molecular Biology
26.0299-Biochemistry, Biophysics and Molecular Biology, Other
40.0501-Chemistry, General

Language required: English

Knowledge in sample preparation in proteomics, liquid chromatography mass spectrometry, data analysis
Autonomous and responsible working style, comfortable in an interdisciplinary environment
Must be a Master student!

Work Offered

The company was founded in 2008 as a spin-off from the ETH Zurich and is a leader in next-generation proteomics, offering services and products for precise high-content protein quantification. Their technology quantifies proteins with unbeatable precision and depth. The company has product and service customers in industry and in academia all over the world.

Tasks (Master Thesis Project):
Sample preparation is an essential part in every proteomics experiment. An optimized sample preparation makes all the difference to whether a project is successful or not. Your first project will be to optimize plasma sample preparation with respect to the efficiency of the tryptic cleavage of proteins. Other criteria such as the reproducibility, chemical modifications of the proteins and simplicity of the protocol will also be considered. The second project is about optimizing the parameters of our target deconvolution platform. Differential limited proteolysis (LiP) of proteins can be used to find novel targets of small molecules which are e.g. hits from a selection process in a phenotypic screen. LiP is a new and very powerful approach which doesn't require time intense and potentially problematic chemical modification of the small molecules. Hence, LiP is an essential component for a fast and cost-effective drug development.

Latest starting date: November 2018

Full description available as PDF

Number of weeks offered: 26 - 52

Working environment: Research and development

Gross pay: 2,500 CHF / Month

Deduction to be expected: approx. 10 % Social security AHV/IV

Lodging will be arranged by: IAESTE LC Zurich

Estimated cost of lodging: 750 CHF / Month

Estimated cost of living incl. lodging: 1,600 CHF / Month

Additional Information

Students with any NON-EU/EFTA nationality need to provide an official letter from their university, confirming that the traineeship is compulsory (IAESTE Switzerland will apply for visa and work permit)

Nomination Information

Deadline for nomination: 19-APR-2018

Please send nominations by Exchange Platform

Date: 16-APR-2018

On behalf of receiving country: Sabine Lenz

International Association for the Exchange of Students for Technical Experience - IAESTE a.s.b.l.
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