Fachhochschule Nordwestschweiz
Hochschule für Life Sciences

Seminar on Digitalisation in Chemistry

Predicting structure, reactivity and properties in modern drug discovery

The one-week seminar gives interested chemists & students (BSc & MSc Level) an insight into how digitalisation is currently applied and how it will will influence the future of Chemistry, Chemical Engineering and Process Development. In recent years computer assisted techniques have found their way into many chemical processes and are especially beneficial in both drug discovery and toxicology. The simulation of ligand molecules in receptors using molecular modelling software is already well established in industry. But digitalisation offers a lot more; structural databases, computer-assisted retro-synthesis, artificial intelligence in drug development, fully automated synthesis and more, will change the way we work in the very near future.
The 5 day seminar will focus on the following topics: molecular modelling, databases, drug discovery and robotics / lab automation. Besides the in-depth theory from presentations, case studies and workshops by invited specialists, company visits will give participants some examples of applied digitalisation.

Target Audience
The seminar is aimed at employees in the chemical and life sciences industry as well as at BSc and MSc-students of the FHNW School of Life Sciences.

Seminar fees
The seminar fee is CHF 800. This includes lunch but no travel costs. Bring your own notebook.

Duration
August 29th – September 2nd 2022, FHNW Campus Muttenz – FHNW School of Life Sciences

Contact and registration
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Further information: www.fhnw.ch/digitalisation-in-chemistry