Proposition of internship for international students in Chemical Engineering and Chemical Technology: **"Numerical Simulations Using Aspen Plus"**

This proposition is open for students that wish enlarge their knowledge in numerical simulation of chemical installation using Aspen Plus program. The purpose of numerical simulation is to model and predict the performance of a process. The process performances could be predicted using computer-aided process simulation tools. The ASPEN Plus is one of the most powerful and widely used software.

The aim of training is to produce some "step by step" documents. These documents are intended to be helpful tools for students and could explain how we can perform the simulations using Aspen Plus. The candidate will perform the numerical simulations of some industrial installations or simple industrial plants and after will describe how to do the simulation in details in "step by step" document.

Therefore, a basic understanding of the chemical engineering principles is required to supply reasonable values of input parameters and to evaluate the suitability of the results obtained.

Prerequisites:

1. basic knowledge in Unit Operation in Chemical Engineering, like heat and mass transfer.
2. basic knowledge in numerical programing
3. good English skills

For more information please contact Dr. Marek CZERNICKI: marek.czernicki@ensc-lille.fr (copy to international@ensc-lille.fr)

Level of studies: minimum 3rd year
Duration: 2 to 12 months
Keywords: Aspen Plus, numerical simulation, heat and mass transfer, Erasmus

No funding available from the laboratory. See Erasmus placement fundings from your institution if you are a UE student.

21st January, 2015