PhD vacancy in the research group ‘Development of eco-efficient processes for sustainable industrial chemical and biochemical engineering’, led by Prof. Patricia Luis at the Catholic University of Louvain

Profile:
Chemical or biochemical engineer

Motivated candidate with the following aptitudes:
- Willing to work in an international group
- Sociable, team worker, helpful and friendly
- Willing to teach in master courses (practical lessons)
- Willing to travel (conferences and research stays)
- English is a mandatory language (high level in writing and spoken English). Other languages spoken within the group are French, Spanish, Dutch, and Chinese.
- Knowledge of Aspen is a plus point

Status:
4-year PhD grant, starting on 1st January 2018, in the framework of a ERC Starting Grant

Research topic:
Biomimetic fixation of CO₂ using membrane technology and amino acids solutions

The continued increase in the atmospheric concentration of CO₂ due to anthropogenic emissions is leading to significant changes in climate, with the industry accounting for one-third of all the energy used globally and for almost 40% of worldwide CO₂ emissions. Fast actions are required to decrease the concentration of this greenhouse gas in the atmosphere, value that has currently reaching 400 ppm. Mimicking Nature and take advantage of millions of years of evolution should be considered as a basic starting point in the development of smart and highly effective processes. The use of amino-acid salts for CO₂ capture will be the main objective of this PhD position in order to recover CO₂ in the form of (bi)carbonates.

Application:
If interested, please send your CV, a motivation letter and a reference letter by email to:

Prof. Patricia Luis: patricia.luis@uclouvain.be

Deadline: 30th October 2017

A skype interview will be organized at the beginning of November with the relevant candidates. The final selection will be done by 15th November.