

**Postdoc vacancy in the research group 'Development of eco-efficient processes for sustainable industrial chemical and biochemical engineering', led by Prof. Patricia Luis at UCLouvain**

Profile:

Candidate with a PhD diploma obtained by January 2020 in the field of enzymatic conversions. A plus if the candidate has experience with membrane technology and/or CO<sub>2</sub> capture.

The candidate should have the following aptitudes:

- Willing to work in an international group
- Sociable, team worker, helpful and friendly
- Willing to teach in master courses in English
- Willing to travel (international conferences)
- English is a mandatory language (high level in writing and spoken English). Other languages spoken within the group are French, Spanish, Dutch, Persian, Chinese and Russian.
- Knowledge of SimaPro is a plus point

Status:

1-year postdoc grant, starting on 1<sup>st</sup> January 2020, in the framework of a ERC Starting Grant. The contract can be renewed afterwards for two years more.

Research topic:

*Enzymatic fixation of CO<sub>2</sub> using membrane technology*

The continued increase in the atmospheric concentration of CO<sub>2</sub> 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 CO<sub>2</sub> 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 enzymes for CO<sub>2</sub> capture will be the main objective of the postdoc researcher in order to recover CO<sub>2</sub> in the form of higher value components.

Application:

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

Prof. Patricia Luis: [patricia.luis@uclouvain.be](mailto:patricia.luis@uclouvain.be)

Deadline : 6th December 2019

A skype interview will be organized with the selected candidates. The final selection will be done by 20<sup>th</sup> December 2019.

+ info research group: <https://uclouvain.be/en/research-institutes/immc/imap/development-of-eco-efficient-processes-for-sustainable-industrial-chemical-and-biochemical-engineering.html>