

Research position available for a young scientist

Biomass biorefinery to green chemicals & biofuels: Bipolar membrane electro-dialysis coupled to fermentation

The laboratory of Bioengineering (<http://www.uclouvain.be/gebi>) at Earth & Life Institute (Applied Microbiology Department, University of Louvain, Louvain-la-Neuve, Belgium, and Centre d'Etudes et de Recherches des catégories agronomique, paramédicale et technique, HELHa, CERISIC (<http://www.cerisic.be>), Mons, Belgium are seeking a highly motivated young scientist to take in charge an experimental research project.

This project aims at investigating the **coupling of bi-polar membrane electro-dialysis (EDBM) to biomass acidogenic fermentation** to improve lignocellulosic biomass bioconversion. The purpose of the research is to contribute to the development of the experimental approach and to investigate the conditions required to operate efficiently EDBM when integrated with biomass fermentation process. The research will include the investigation of the operation conditions required to get and optimise biomass hydrolysis, metabolite concentration, adsorption resins regeneration.

Candidate profile:

- Young (bio)chemical engineer or industrial engineer with good background in bioengineering, electro-chemistry, analytical chemistry; experience with microbial fermentation and electro-chemistry will be an advantage.
- Team spirit and ability to adapt to various scientific approaches.
- Research-minded and practical-minded, ability to integrate real life constraints in the scientific approach.
- Good practical and experimental skills.
- Rigour, responsibility, self-motivation, autonomy, team-spirit.

Language:

French and English. Immediate good knowledge of French is mandatory for discussion with local partners, writing the reports to the funding authority and the vulgarization notes to the public.

Location:

The position will be shared part-time at UCL in Louvain-la-Neuve, part-time at CERISIC in Mons.

Duration: 1/12/2018 – autumn 2019

Deadline for submission of application (CV + motivation letter): 1/11/2018

Contact:

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