

Post-doctorate position in enzymatic and chemo-enzymatic synthesis

The INTERREG V Valbran project is aimed to develop new ways for the valorization wheat bran which is an abundant agricultural co-product from milling industries and biorefineries (bioethanol 1G). The project is based on white biotechnologies and on green chemistry processes to produce various surfactants from wheat bran. High value surfactants will be targeted for various applications (cosmetic, phytochemistry, ...). The most promising way(s) developed at laboratory scale during the project will be further tested at pilot scale in order to get economic data and to study the environmental impact of the processes developed.

Wheat bran will be enzymatically fractionated and released saccharides will be functionalized by enzymatic or chemo-enzymatic approaches.

This project involves 8 partners from France (Grand Est region) and from Belgium.

Mission and required skills :

The post-doctorate will develop approaches for the enzymatic and chemo-enzymatic functionalization to produced sugar-based surfactants. He-she will interact strongly with partners involved in the study of physico-chemical properties study of surfactants and involved in the optimization of the processes (biochemical engineering). He-she must possess

The post-doctorate candidate must possess a biochemist training with a specialization in enzymology supplemented by skills in organic synthesis. The candidate should also have expertise in purification and analytical methods to monitor reactions and characterize products (TL, HPLC, NMR, ...). A good level of English (B2 minimum), good communication and synthesis skills are essential.

Location: The post-doctoral fellow will be based in Reims within the FARE (Fractionation of Agro-Resources and Environment) UMR, UMR URCA / INRA 614 and at the Institute of molecular chemistry of Reims (ICMR), UMR URCA / CNRS 7312.

<http://www6.lille.inra.fr/fare>

http://www.univ-reims.fr/minisite_68/

Duration of contract: 18 months (percentage of work: 100%)

Monthly remuneration : € 1600 to € 1700 net (financing of the Greater East Region)

Candidatures (CV, cover letter, contact of 2 referrals) to be sent before 02 February 2017

to:

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