

PhD position: Department of Applied Chemistry - NCE group University of Liège, Belgium

A PhD position is open in the NCE group (<http://www.nce.ulg.ac.be>) in the field of photocatalytic continuous microreactors for oxygenation reactions.

Project summary

This research program aims at the development of integrated photocatalytic micro-structured devices for the continuous synthesis of high value-added organic molecules, such as active pharmaceutical ingredients, through the efficient *in situ* generation and handling of singlet oxygen. This project is multidisciplinary in essence and requires regular interactions between Chemical Engineers, Chemists and Physicists.

Profile

The applicant must have a degree in chemical engineering, and an marked interest for chemistry and physics. The successful applicant is highly motivated and has good problem solving, troubleshooting, and analytical skills.

He/she has a strong background in chemical engineering and a good knowledge of chemistry with an interest for photocatalytic organic transformations. He/she is expected to get acquainted with photophysics. He/she will contribute to the preparation and characterization of photoactive porphyrin-metal nanoparticle couples and their coating on various materials in order to develop photocatalytic continuous microreactors. He/she will be involved in process and continuous flow reactor engineering. He/she is expected to have excellent interpersonal and communication skills.

The successful candidate will be enrolled in the PhD program at the University Liège (see for more information: https://www.ulg.ac.be/cms/c_25325/en/doctoral-student).

Benefits

4 years (fixed term), ideally from October 1st, 2015, stipend within the frame of a Joint Research Action (ARC 15/19-05 "i_cFlow - Integrated Continuous Flow Photoreactors") at the University of Liège. The successful candidate will join a young, dynamic and multidisciplinary research team.

Contact

Interested applicants should send a brief description of research interests, a CV and the names of 3 references to:

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