



Job Offer for Scientist Post doc researcher in electrochemistry/interface science

ULiège is recruiting a scientist post-doc researcher in electrochemistry to develop, manufacture and characterize electrodes and Membrane-Electrode Assemblies for enzymatic electrolyzers and bio-fuel cell.

Qualifications:

Graduation: PhD in Sciences

Required experience: Post doc researcher in electrochemistry with at least 3 years of experience with enzymatic catalysis and/or materials and interface science.

Language: fluent English (mandatory), a good level in French is an asset.

Duration of the contract: 18 months. Start: July 2024

The researcher will be hired by ULiège (Belgium) in the framework of the collaboration with the H2WIN S.A. (Belgium). Supervisor: Prof. Nathalie Job - Department of Chemical Engineering

Working place: ULiège, at the Department of Chemical Engineering (Sart-Tilman campus).

Responsibilities:

The general aim of the project is to develop and validate a new technology of electrolyser based on enzymatic catalysts developed by H2WIN S.A., in order to improve electrolysis yield and decrease its costs. The main role of the hired researcher will be to develop, manufacture and characterize the electrodes and the Membrane-Electrode Assemblies from its constituents.

The first step will be to select the appropriate materials (besides the enzymes) to build the electrodes, properly immobilise the enzymes on the electrodes and starting from ink formulation using components and conditions compatible with the use of the specific enzymes produced by H2WIN. Fundamental characterization of enzymes/support material interfaces and catalytic activity in simplified environment will be performed in collaboration with another laboratory in Belgium.

The second step will be to assemble the electrodes together with the chosen membrane and compare the enzymes' behaviour under that configuration with that obtained at fundamental level. Finally, the researcher will contribute to the design of the final device including the developed bio-MEAs.

Application:

Please send a detailed CV and a motivation letter highlighting your skills and interests related to this specific project to: Nathalie.Job@uliege.be and H2WIN-info@H2WIN.com



Visa/work permit requirements: Candidates must currently hold the independent right to live and work in Belgium. Please note that it is your responsibility to ensure you meet the legal requirements to live and work in Belgium.

Application deadline: May 31st 2024