

Open call for a PhD Fellowship position in 2017

Three-years appointment beginning on October 01, 2017.

Open call for PhD candidates in the research project: "*Development of new electrocatalysts based on nano-alloys displaying high activity and durability / Développement de nouveaux catalyseurs électrochimiques basés sur des nanoalliages actifs et durables*" at Laboratoire Interfaces et Systèmes Electrochimiques (LISE) in the Université Pierre et Marie Curie (UPMC) in Paris (France).

Abstract: The project is focused on studying new electrocatalytic nanomaterials useful in fuel cells by Scanning Electrochemical Microscopy (SECM) and Electrochemical Impedance Spectroscopy (EIS). These two electroanalytical techniques would provide relevant information regarding the reaction mechanism and the adsorption of reaction intermediates. The main goal is to enhance both activity and durability displayed by different modified Pt-M and Pd-M alloys (M stands for a transition metal). Local modifications on the electrocatalyst surface would be performed by electrochemical means. The electrochemical reactions of interest are oxygen reduction (ORR), borohydride oxidation (BOR) and formic acid oxidation (FAOR) reactions.

Applicants must hold a master's degree (M2) by the end of July 2017. The salary will be in accordance with the UPMC requirements **1422 € net/month**.

On line applications must include the following information:

- CV
- Motivation letter
- Letters of support from senior researchers (optional)

Candidates should apply directly to the Thesis Supervisor:

Dr. Carlos M. SANCHEZ-SANCHEZ, CNRS researcher

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