POSTDOC - HETEROGENEOUS CATALYSIS

Postdoctoral Position – Carbon-Based Materials for the Catalytic Synthesis of Fluorinated Molecules

The growing demand for fluorinated molecules in the pharmaceutical and agrochemical industries, as well as in the optimization of Li-ion batteries, underscores the need for new selective fluorination methods. These methods enable the preparation of fluorinated building blocks—key intermediates for the synthesis of more complex organic molecules—and must be developed in line with the principles of sustainable chemistry. Today, more than 80% of industrial-scale processes involve at least one catalytic step. Consequently, the catalytic synthesis of new fluorinated molecules is a highly promising approach, as it generally reduces the formation of undesired by-products.

The **Institute of Chemistry of Poitiers (IC2MP – UMR 7285, University of Poitiers)**, in partnership with **Syensqo as private partner**, and within the framework of an **ANR Collaborative Research Program with Industry (PRCE)** involving four additional academic collaborators (Institut des Matériaux de Nantes, Institut de Chimie de Clermont-Ferrand, and Institut Jean Lamour Nancy), is recruiting a **postdoctoral researcher**. The objectives of this project are to investigate a new class of materials (carbon based materials) for catalyzed fluorinations and establish structure – reactivity relationships. The successful candidate will work in close collaboration with both academic and industrial partners, presenting progress reports and participating of project meetings. This dynamic environment will provide the opportunity to gain strong expertise in catalysis and materials chemistry.

This position is funded by a **CNRS–ANR fellowship** and will be hosted at **IC2MP (University of Poitiers)**.

Profile: PhD in heterogeneous catalysis, materials, physico-chemical characterizations, chemical engineering, analytical chemistry.

Start: November 2025
Salary: € 2300 net / month

Applications should be sent by email (CV + cover letter) to:
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