

# Postdoctoral position in Organic Synthesis

(COBRA, UMR 6014, University of Rouen Normandie)

## • Context

Organofluorine chemistry became a research area of paramount importance from both academics and industries because of the deep modification of the pharmacological properties of organic molecules brought through the introduction of fluorinated residues. Therefore, developing new strategies to introduce fluorine moieties into organic molecules is nowadays an important research area in organic synthesis. Moreover focusing on technologies allowing for reducing carbon footprint of the pharmaceutical industry, which is now more polluting than the automobile manufacturing sector is of particular importance. In this context, the redox chemistry involving radical intermediates has emerged as a valuable synthetic tool for the preparation of fluorinated molecules compared to the well-established nucleophilic or electrophilic reactivities. This project is then focused on developing new methodologies towards the formation of fluorinated molecules by using re-emerging sustainable technologies (Photoredox, electrochemistry, flow chemistry, mecanochemistry...).

## • Project

The postdoctoral position will take place at the COBRA laboratory, UMR 6014 within the team « [Synthesis of Fluorinated Biomolecules](#) » lead by Pr. Philippe Jubault. This project is part of our research program dedicated on the development of innovative methodologies to access fluorinated molecules through the formation of fluorinated radical intermediates. The postdoctoral fellow will be in charge of the experimental work, analysis (NMR, HRMS, HPLC...), the writing of scientific reports and will supervised in the lab area a master 2 student and will take benefit from an international environment.

## • Details

- Working Place: [COBRA laboratory](#), UMR 6014, University of Rouen Normandie (France)
- Funding: Région Normandie
- Contract period: 12 months (renewable for 12 months)
- Starting date: 08/01/2024 (expected)
- **Application before: 01/11/2024**
- Net salary ≈ 2100 €/month

## • Profile

- PhD in organic chemistry
- Dedicated, motivated, curious and organized
- Experienced in organic synthesis, development of new methodologies and strong skills in analysis of organic molecules.

## • Application

- Detailed CV
- Short research summary
- Cover letter
- Contact of at least two referees, able to be contacted to provide recommendations
- **All document should be sent by email to Dr. Thomas Castanheiro ; [thomas.castanheiro-matias@univ-rouen.fr](mailto:thomas.castanheiro-matias@univ-rouen.fr)**