

## Post-Doctoral Position in Organic Synthesis (18 months)



**Starting date:** January 2021 (open until filled)  
**Duration:** 18 months  
**Salary:** 2900 € / month before taxes  
**Location:** COBRA, UMR 6014, Rouen Normandy Univ., France. Group: "Heterocycles"  
**Scientific supervisors:** Dr Corinne Fruit and Prof Thierry Besson

**Project:** Generation and reactivity studies of heteroarylcopper complexes as key intermediates for the synthesis of high valuable fluorinated targets

Copper-catalyzed C-H diversification is fairly appealing as an eco-compatible strategy for the construction of new complex molecules required in drug discovery or in material sciences. As part of our ongoing program with Prof Sensuke Ogoshi from Osaka University (Division of Applied Chemistry, Graduate School of Engineering), the successful candidate will be involved in the synthesis and reactivity studies of heteroarylcopper complexes as key intermediates for the synthesis of high valuable fluorinated targets. The results of this research constitute a strategic challenge for the construction of high valuable tetrafluoroethylene-bridging structures without toxic waste, the straightforward synthesis of an array of promising bioactive molecules as anticancer drugs and the synthesis of new fluorinated polymers with a heterocyclic core.

**Key words:** Organocopper, C-H activation, Heterocycles, Fluorine Chemistry, Cancer therapy.

### Your profile:

- Excellent skills in organic synthesis, organometallics and metal catalyzed C-H activation. The ideal candidate should be highly motivated, have problem solving skills and will have to demonstrate a strong background in organocopper chemistry. Knowledge in fluorine chemistry and heterocycles will be an advantage.
- Strong communication and leadership skills
- Ph.D. in synthetic methodology or organometallic chemistry

### Application procedure:

- a motivation letter
- a detailed CV
- a short graphical research summary (1-3 pages)
- Contact details of 2-3 referees

→ **SEND ALL DOCUMENTS TO:** [corinne.fruit@univ-rouen.fr](mailto:corinne.fruit@univ-rouen.fr)