

Post-doctoral researcher in Organic and Polymer chemistry

Period : position available from November 2018 onward.

Financing : contract for one year, 1900€ per month.

Research description: A postdoctoral position of one year is proposed to develop and test a new family of non isocyanate polyurethanes using novel biobased crosslinking agents. He/she will focus on the synthesis of a family of hydrophilic biobased agents which will be used to develop new polyurethane materials for different applicative sectors such as the coating or cosmetic ones.

Context: This multidisciplinary work is based on the close collaboration between two research units PBS (Polymers Biopolymers Surfaces, UMR 6270 CNRS) and COBRA (Organic and Bioorganic Chemistry-Reactivity and Analysis, UMR 6014 CNRS) belonging to I2C Tremplin CARNOT. In this multidisciplinary project, the first part of the work will be dedicated to implement the organic pathway to reach to the goal molecules. Then, different polyurethane materials with selected structures will have to be developed and characterized.

Location : PBS, INSA Rouen 685 Avenue de l'Université – 76800 Saint-Etienne du Rouvray, (France)

Your profile:

- Excellent candidates of any nationality are eligible to apply. The candidates should have:
- a PhD in chemical synthesis organic or preferably macromolecular chemistry.
 - a very good background in organic chemistry and polymer chemistry.
 - Interest in one or more of the following research areas: biobased polymers, non-isocyanate polyurethanes, organic synthesis, or Physical Chemistry.
 - Quantitative and experimental skills in polymer and colloid synthesis and/or in organic chemistry.

Applications should gather a covering letter including a brief statement of research interests, CV and contact information for two to three references. Both applications and informal enquiries may be addressed to:

Contact / supervision: fabrice.burel@insa-rouen.fr