

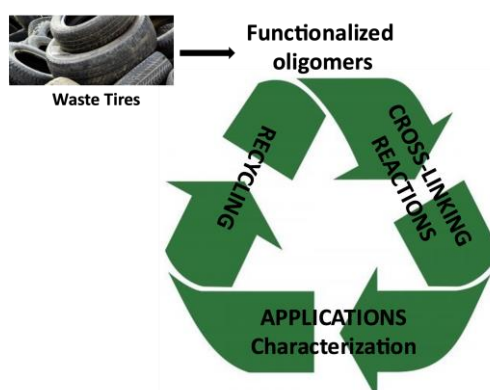
DOCTORAL POSITION

Tire Waste based Elastomeric Vitrimers (TWELV).

Supervisors: Pr Loïc Le Pluart and Pr Isabelle Dez (LCMT – UMR 6507)

Context:

TWELV project is an academic research project which aims at demonstrating that functionalized oligomers obtained from chemical recycling of tire wastes can be used to elaborate innovative self-healing and recyclable materials designed in a circular approach with a minimal consumption of fossil resources. The chemical recycling process of tire waste will be based on the cross-metathesis reaction to obtain functionalized oligomers. We aim at engaging these waste-based fine chemicals in crosslinking reactions to synthesize and fully characterize innovative elastomeric vitrimer materials.



Laboratory:

This research project will be carried out in the polymer group of LCMT. The « Laboratoire de chimie Moléculaire et Thioorganique » (LCMT, Caen) is a member of the « Institut Normand de Chimie Moléculaire, Médicinale et Macromoléculaire » (INC3M Federation). With more than 200 researchers, INC3M meets the requirements for a high-quality level of research in the fields of organic synthesis, macromolecules, and medicinal chemistry. LCMT also a member of two laboratories of excellence: **Labex Synorg** et **Labex EMC³** and of the Carnot Institute **Innovation Chimie Carnot (I2C)**. LCMT is a major player in the field of the molecular and macromolecular chemistry. It participates in national (ANR) and European projects (INTERREG IV, COST). In addition, it has developed various long-term public-private partnerships with chemical companies and research institutions in France and abroad.

Candidate profile:

Applicants should have a strong knowledge of synthetic organic chemistry with a master degree (or equivalent) in organic chemistry. An inclination for polymer chemistry and materials science are required. He/She will be rigorous, motivated, hard-worker, autonomous and he/she will have a very good ability to work within team and a very good ability to communicate. Strong oral and written communication skills in English, and French (for French speaking candidates) are requested.

Type of funding:

Normandie Region funding 3 years position; salary range 2100 to 2300 € monthly gross.

HOW TO PUT FORWARD MY CANDIDATURE (before 1st JUNE 2024)

Please, send your examination marks, cover letter, and CV with references by e-mail to: loic.lepluart@unicaen.fr and isabelle.dez@unicaen.fr