

Postdoctoral Researcher Position

“Bio-inspired Macromolecules Self-Assembly in Solution”

Position Description: The Bio-inspired Materials group BIMG in the IPREM CNRS Institute UMR 5254 at the University of Pau & Adour countries (South-Western France) is seeking an outstanding, highly motivated candidate for an immediate postdoctoral researcher opening working in the field of macromolecular design and their self-assembly.

The candidate will take a leading role in the synthesis of functional macromolecules and their physical chemistry in water-based solution, using for both bio-inspired methodologies (functionality, structure, process, architecture ...).

The position is available *asap* for one-year postdoctoral fellowship with a gross salary of ca. 2900€/month, within the framework of a collaborative project between the BIMG and BASF.

Main responsibilities:

Developing the synthesis, the characterization and the self-assembly in solution of functional macromolecules as building blocks for the elaboration of “cargos” for active ingredients.

Physical chemistry and stability of the self-assembled systems.

Bio-inspired methodologies will be used through the all project from the chemical composition to the self-assembly process.

Redaction of manuscripts and reports, publication and presentations in English of the research results in the framework of the consortium. Assistance with writing IP protection documents.

Qualifications: Prospective candidates should have a strong background in Polymer science, specifically in macromolecular designs and their physical chemistry properties. Expertise in biocompatible & degradable polymers as well as in formulation science is also desirable. An interest for or an experience in Biomimicry will be appreciated.

Strong written and verbal communication skills are required for this position, especially in the context of a highly multidisciplinary topic within an industrial collaborative project.

The initial appointment will be for one year. The position is open to start as soon as possible.

For information on the project and position, interested candidates are encouraged to contact Pr. Laurent BILLON, leader of the Bio-inspired Materials group BIMG: Functionality & Self-assembly, by email at laurent.billon@univ-pau.fr.

(https://iprem.univ-pau.fr/fr/_plugins/mypage/mypage/content/billon.html)

Please include a CV, brief description of research interests, and contact information for two professional references.