

Post-Doctoral Offer: Polymers with hydrophilic chains to improve the resistance to biofouling of polymer filtration membranes.

Institut Européen des Membranes – Université de Montpellier

Abstract: The project concerns processes using polymers having hydrophilic side chains to modify the surface of the pores of polymer filtration membranes, giving them particular anti-clogging properties.

Main Missions: Organic synthesis, development and characterization of commercial polymer membrane surfaces, and studies of their performance for filtration of microbial contaminants.

Mission: The objective of the postdoctoral contract is to determine the variables enabling the optimization of contaminant filtration performance through membranes and to carry out preliminary tests with a view to producing a prototype anti-clogging membrane based on hydrophilic polymer coatings.

Required Profile: The candidate, a physical chemist or chemist with good knowledge of physics and surface chemistry, should have a strong interest in technology and health. Knowledge of biomaterials and silicone chemistry will be appreciated. The candidate will work mainly in the "Sustainable Macromolecular Materials" team at the Institut Européen des Membranes, Université de Montpellier (France). He/she will have to work and interact with people in different fields ranging from organic synthesis to physicochemical studies and surface chemistry.

Conditions:

Contract duration: 15 months

Start date: June to October 2025

Salary: approximately €2,250 net per month (depending on experience)

Employer: ENSCM

Workplace: Montpellier – France

Specialty: Chemistry – Materials Chemistry – Engineering Science

Application deadline: 30/05/2025

Team: Sustainable Macromolecular Materials - Institut Européen des Membranes

www.iem.umontpellier.fr

Contact: M. Thierry Thami (thierry.thami@umontpellier.fr)