

Post-doctoral position

Development of polymeric membranes for effluent processing in offshore platform

Recruitment Period: Open April 3rd, 2017 through February 2nd, 2018 (11 months)

The European Membrane Institute (IEM, CNRS UMR5635, UM) is a reference at the international level in the field of materials and membrane processes. The Advanced Macromolecular Materials group (AMM), directed by Dr. Damien Quémener, is conducting research in advanced polymer membranes made of self-assembly of diverse building blocks such as block copolymers or inorganic particles. **AMM is looking for a motivated and qualified postdoctoral scholar to prepare new membranes from chemically-modified macromolecular precursors.**

The research work will take place as part of the GASPOM joint project involving a consortium composed of both industrial and academic partners supported by ANR (French National Research Agency). The research focus for this position is on the development of novel polymeric membrane materials for application in treatment of generated wastewater from offshore oil platforms. As they contain emulsified and dissolved hydrocarbons, treatment is required in order to decrease their environmental impact. The aim pursued in the project is to replace conventional methods, such as ceramic membranes (bulky, expensive and fouling-sensitive), by polymeric membranes.

The project will involve the use of a new approach for the preparation of membranes that will be chemically stable, fouling resistant to the compounds in the wastewater to be treated, and thermally stable for high temperature filtration. The final objective is to develop a scaled-up process and condition to obtain hollow fiber membranes.

Qualifications: Applicants must have obtained a PhD in polymer chemistry or a related field with some experience in membrane science and/or in material science. Strong written and verbal communication skills are required. Highly self-motivated individuals who have demonstrated the ability to conduct scientific research successfully and work independently are desirable. The candidate is expected to stay abreast of recent publications in the field of advanced membrane materials, develop research ideas and write research papers. The postdoctoral scholar is also responsible for maintaining lab equipment and reinforce lab hygiene and safety protocols.

Review of applications will begin immediately. Position is open until filled. Starting dates are negotiable. Interested applicants are required to submit 1) a cover letter, 2) a short research statement, 3) curriculum vitae and 4) names of at least two professional/academic references with contact information including mailing address, phone number and e-mail address.

Job location: Montpellier, France

Requirements:

Curriculum Vitae - Your most recently updated C.V.

Cover Letter

Research Statement

Reference Contact Information - Please provide information for two references including mailing address, phone number, and email address.

Gross salary: about 2500 € / month

How to apply: send your application to both

andre.deratani@umontpellier.fr

and

damien.quemener@umontpellier.fr