Postdoctoral Researcher (12+12 months)

Bio-inspired "Single-ion Conducting" block copolymers self-assembly

Position Description: The Bio-inspired Materials group BIMG in the IPREM Institute UMR5254 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 for printed ionic conductive films & electrodes. The candidate will take a leading role in the synthesis, fabrication and characterization of organic materials for energy storage, "single-ion conductive" block copolymers, especially. Moreover, the candidate will also have to characterize and optimize the performance of the electrodes.
The position is available *asap* for one-year postdoctoral fellowship (with possible extension up to 12 months) with a gross salary of ca. 2500€/month, within the framework of the BIMG and will be in a collaboration with the ITN-EJD eSCALED Project (MSCA-ITN-2017- project ID 765376) and the international chair INTERMAT of Dr. Emilio PALOMARES (E2S UPPA/ICIQ).

Main responsibilities:
Developing the synthesis, the characterization and the self-assembly of "Single-ion Conducting" block copolymers SIC BCP as building blocks for the elaboration of electrodes binders and PolyElectrolyte Solid membranes.
Physical chemistry of polymer formulations for the elaboration of porous electrodes by Breath Figure and solution processing.
Redaction of manuscripts and reports, publication and presentations of the research results. Dissemination of above to the wider public. Assistance with writing, research grants, IP protection documents, etc.

Qualifications: Prospective candidates should have a strong background in Polymer science, specifically in macromolecular designs and their physical chemistry properties. Expertise in conductive polymers and electrochemical storage is also desirable. Strong written and verbal communication skills are required for this position, especially in the context of a highly multidisciplinary effort. As part of the Postdoctoral training, the applicant will be required help supervise and train graduate and undergraduate students.
The initial appointment will be for one year with possible extension. The position is open to start as soon as possible.

For information on the project and position, interested candidates are encouraged to contact 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.

Pr. Laurent BILLON
Deputy director IPREM UMR 5254, Université de Pau & Pays de l'Adour
Bio-inspired Materials Group: Functionality & self-assembly
Hélioparc, 2 avenue Angot
64053 Pau Cedex 09
Email : laurent.billon@univ-pau.fr
Tél : 00 33 5 59 40 76 09