Calling for Expression of Interest (EOI) – Postdoctoral fellowship

Chargé de recherches (CR) and Marie-Sklodowska Curie European Fellowship (MSCA-IF)
At the 3BIO-BioMatter unit, the Free University of Brussels (ULB)

Description

Laboratory of BioMatter at the faculty of Engineering, the Free University of Brussels aims to identify potential international candidates interested in the field of biomaterials engineering:

Candidates with the required profile will work with us to submit a full application to the Marie-Sklodowska Curie European Fellowship, Chargé de recherches - CR schemes.

The focus is on design and development of 3D model for soft tissue engineering including engineering extracellular matrix to model tumour microenvironment.

The broader potential research themes are:

Biomaterials for tissue engineering applications:

- Hydrogels including enzymatic crosslinking for TE applications
- 3D models for TE applications

Biomaterial synthesis and characterisation:

- Polymeric/Biopolymeric biomaterials
- Composites and nanocomposites
- Stimuli-responsive biomaterials

Additive Manufacturing/3D Printing:

- Biomaterials for extrusion printing
- 3D bioprinting/biofabrication
- Melt Electro Writing (MEW)
- Biomaterials (including coatings) for local drug and growth factor delivery

Biomaterials for specific medical applications:

- Skin and mucosa
- Wound healing and tissue adhesives

Interested individuals who have clear research topics and can write an excellent proposal under our guidance are required to submit an EOI application form using the links below in the first instance by 25 **May 2022**. Please note that this is not a funded position but an expression of interest to apply for funding.

Project description:

Duration: 1-3 years depending on the call

Useful Links

The following links will provide additional information

Chargé de recherches - CR

H2020 guide for applicants

Scheme Details

The MSCE and CR Fellowships offer individuals the opportunity to enhance their career development and prospects by spending a period working abroad. The schemes support the best, most promising individual researchers from anywhere in the world, and any nationality.

Only experienced researchers can apply, and this means that the applicant must:

- Hold a Ph. D in chemical engineering, materials science and engineering, biological engineering, chemistry, and other relevant fields
- **Have a research topic(s) and able to write an excellent proposal under our supervision before the deadlines**.
- An excellent publication track record.

And be able to satisfy most of the following requirements

(1) Biomaterials, e.g., hydrogel and scaffold design, synthesis, and characterization

(2) Invitro techniques such as cell culture models, cytotoxicity tests, immunohistochemistry, and protein and gene expression analyses

(3) Bioprinting techniques, such as micro-extrusion, DLP, etc.

(4) In vivo models, imaging, and tissue evaluation

Application Process & Deadlines

Expressions of Interest must be submitted using the APPLICATION FORM, together with a full CV (no more than three pages), by email to amin.shavandi@ulb.be no later than **25 May 2022.** Only applicants who provide a **clear, focused, and detailed** outline of their proposed research can expect a response by the 10th of June 2022.

All required documents should be combined in the form of one single pdf file and no larger than 500 KB.

The subject of the email: EOI – FIRST NAME, LAST NAME

Questions

For any queries relating to this call, please direct these to Amin Shavandi (amin.shavandi@ulb.be).

Applicant information	
Name of applicant	
Email address	
Current position and institution	

Proposed research
Title of the proposal:
Please give a brief and detailed outline of the nature of your proposed research, including its aims and objectives in detail (no more than 500 words).