



Post-Doc Fellow 12 months (2019/2020)

Mesoporous nanomaterials for bioapplications

Responsibilities and tasks

A postdoctoral fellowship is available in the Nanosciences Department of the ICB laboratory at the University of Bourgogne Franche-Comté (BFC) in Dijon (France). This post-doc position is part of the NPs@EVS research project that aims to develop nanohybrids for biomedical applications.

The research will focus on the synthesis of mesoporous silica nanoparticles (MSNs) using biocompatible or biosourced surfactants as templates. The nanoparticles will be functionalized (i) for drug delivery application, (ii) to interact with extracellular vesicles (EVs), (iii) for the extraction of natural bioactive co-products.

During this one-year position, the researcher will (i) perform experimental studies (synthesis, functionalization and characterization of MSNs...), (ii) present data from research at seminars, technical meetings, national and international conferences, (iii) participate in laboratory and students management, (iv) collaborate with scientists internally and externally to the ICB Laboratory, (v) publish research results in peer-reviewed scientific or technical journals.

Qualifications

The ideal candidate will have a PhD in chemistry or in nanosciences and an expertise in (i) the synthesis and characterization of (templated) nanoparticles, (ii) the functionalization of nanoparticles. An experience in biological sciences (cell culture techniques and cytotoxicity assays) will be appreciated.

An experience in most of the following analytical techniques DLS, zetametry, TEM, N₂ physisorption, TGA, FTIR, Raman and UV-visible spectroscopies will be also required.

Salary

1800 to 2300 € net salary/month depending on your CV.

Contact :

Dr Frédéric Bouyer

BH2N Team

Laboratoire Interdisciplinaire Carnot de Bourgogne

Nanosciences Department

UMR 6303 CNRS/Université Bourgogne Franche-Comté

E-mail : frederic.bouyer@u-bourgogne.fr

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