



Funded by the
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Post-Doc Fellow 24 months (2022/2024)

DEPOLLUSON : Development of multifunctional nanocomposites for heavy metal depollution.

Responsibilities and tasks

A 2-year post-doctoral fellowship is available in the Department “Interfaces” of the Laboratoire ICB at the University of Bourgogne Franche-Comté (Dijon, France) in collaboration with SON-SAS, a start-up specialized in the design and manufacturing of magnetic nanoparticles. This position is open in the framework of the Economic Recovery Plan initiated by the French government “France Relance”. The recruitment of the post-doc will aim to reinforce the development of SON-SAS.

The project will focus on the development of multifunctional nanomaterials for the depollution of nuclear effluents. Core-shell nanoparticles will be synthesized and functionalized with organic ligands to optimize the removal of heavy metals from aqueous model systems to nuclear effluents. During this 2-year position, the researcher will (i) perform experimental studies (synthesis of nanoparticles, functionalization and characterization of nanocomposites...), (ii) present results in seminars, meetings, and conferences, (iii) participate in the management of technicians and engineers, (iv) collaborate with scientists in the Laboratoire ICB, (v) write publications in agreement with SON-SAS.

The post-doc position is available from October 2022 but the start date is negotiable. The candidate must send: a **cover letter**, a **detailed curriculum**, a **letter of recommendation** and at least **one contact**.

Qualifications

The ideal candidate will have a PhD in chemistry or in nanosciences and an expertise in (i) the synthesis and characterization of nanomaterials, (ii) the functionalization of nanomaterials. An experience in most of the following analytical techniques is highly recommended : DLS, zetametry, TEM, N₂ physisorption, TGA, FTIR and elemental analysis.

Salary

2400 € net salary/month depending on your CV.

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