



Two-year Postdoctoral Position

Project: *FunkNano4Cancer* – Functionalisation of nanoparticles for improved diagnostics and anti-cancer efficacy

JOB PROFILE

We are seeking a highly motivated postdoctoral researcher with a strong background in bioorganic chemistry, materials chemistry, or nanomedicine. The successful candidate will join the interdisciplinary *FunkNano4Cancer* project, which combines expertise in physical chemistry active pharmaceutical ingredients and excipients, chemistry, nanomedicine, drug delivery, and biological evaluation. The position involves collaboration between two laboratories at Université Paris Cité: LCBPT (UMR CNRS 8601) and UTCBS (INSERM U1267 – CNRS UMR 8258).

KEYWORDS

Nanocrystallization, physical chemistry, bio-orthogonal chemistry, immunotherapy, theranostics.

JOINING UNIVERSITÉ DE PARIS

Located in the heart of the French capital, Université Paris Cité stands among the most prestigious French and international institutions, thanks to its world-class research, outstanding academic programs, strong support for innovation, and active contribution to the development of the European Research and Higher Education Area.

Recognised as an Initiative of Excellence (Idex) since March 2018, Université Paris Cité draws on the strengths of its faculty, researchers, staff, and students to develop high-impact scientific projects and train the men and women who will shape the world of tomorrow. From the exact and experimental sciences to the humanities and social sciences, including health, interdisciplinarity is a defining hallmark of its identity.

Today, the university is home to 64,000 students, 7,500 staff members, and 138 research laboratories, organised within its three main Faculties—Health, Science and Society, and Humanities—as well as the Institut de Physique du Globe de Paris.

Joining Université Paris Cité means committing to excellence and engagement in the service of strong values: public service, scientific and intellectual rigor, as well as curiosity and openness to others and the world.

MAIN RESPONSABILITIES

- Design and synthesise novel linkers for site-selective protein modification
- Formulate nanocrystals of anticancer agents and stabilise them using tailored copolymers
- Characterise the functionalised nanoparticles (MS, fluorescence, DLS, HPLC, TEM, DSC, etc.)
- Contribute to biological evaluation: in vitro (cell culture, cytometry, ELISA)
- Assist in mentoring M1 and M2-level master's students
- Contribute to scientific writing (articles, reports) and dissemination (conferences)
- Involvement in learned societies (SFnano, AECCPCM, etc.)

Cadre de l'offre d'emploi : Catégorie A, Post-doctorant.e Date souhaitée de prise de fonction 01/09/2025 Localisation du poste : LCBPT & LITCBS

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REQUIRED SKILLS

- Solid training in physical chemistry, nanomedicine, bioorganic chemistry and/or bioconjugation
- Familiarity with nanoparticle formulation
- Hands-on experience with analytical tools (NMR, MS, DLS, imaging, HPLC, TEM, DSC)
- Experience working with cell lines for drug in vitro evaluation
- Ability to work independently and as part of an interdisciplinary team
- Excellent English scientific writing and communication skills

OPTIONAL SKILLS

- Experience with antibody modification
- Practical knowledge in flow cytometry, fluorescence imaging, or optical in vivo imaging
- Experience working with mouse tumour models

APPLICATION PROCEDURE

To apply, please submit the following documents before Friday, May 23rd, 2025, at 5:00 PM:

- A CV
- A cover letter (maximum 2 pages)
- A summary of your PhD dissertation (1 page)
- A list of publications, clearly indicating peer-reviewed articles
- Two recommendation letters

Applications must be submitted electronically to the following email addresses:

antoine.maruani@u-paris.fr & yohann.corvis@u-paris.fr

Following receipt of your application, a selection process will be carried out, which may include an interview.

Salary: According to standard salary scale and candidate's experience.