

Postdoc position

The group of Soft BioColloids, headed by Assist. Prof. Laura Alvarez at the University of Bordeaux is looking for a Postdoc candidate to work on active lipid vesicles, starting date from September 2023 (negotiable).

Project Objective

Our new laboratory aims to challenge the state of the art on the fabrication of soft active matter systems, investigating active lipid vesicles as cell-mimetic architecture. Although soft active systems have been extensively explored theoretically and numerically, their experimental realization remains fairly untapped. The fabrication of active lipid membranes is a big step forward towards motile artificial cells.

In this Postdoc project, the candidate will work on the fabrication of soft active vesicles, and their dynamical behavior under chemical gradients in microfluidic channels. The project will be performed in collaboration with Prof. Jean Christophe Baret (CRPP), a leading group on microfluidics. The candidate will also interact with theoretical and numerical collaborators.

Your profile

- PhD degree in chemical engineering /materials science /physical chemistry (or equivalent), with experience with microfluidics and or active matter.
- Demonstrated experience in image analysis and particle tracking (Matlab or Python). Skills in biochemistry are a plus.
- Highly motivated, with strong experimental skills.
- Good organizational and communication skills. Excellent writing skills.
- Proved supervision and mentoring experience.
- Able to work independently and in a team.
- Creative thinking to develop new approaches and methods.

Offer

- A 24 months contract.
- Access to state-of-the-art laboratories and shared facilities.
- Access to collaborative and multidisciplinary International and European networks.
- Competitive salary (based on the French salary scales for postdocs).
- Vacation and maternity/paternity leave according to the French law regulations.

Interested?

We are looking forward to receiving your online application with the following documents:

- Cover letter describing your motivation and research experience (max. 1 page).
- Curriculum vitae.
- Digital copies of Bachelor's, Master's and Ph.D. degree certificates.
- Name and contact details of two-three references

In our group, we advocate for inclusion, equality, and respect. We support core values such as open scientific rigor, teamwork spirit, and healthy human relationships.

Website: <https://www.softbiocoll.com/>

Twitter: https://twitter.com/LauraAlvarez_F