



**Postdoctoral Researcher Position in Cell & Molecular Biology
Biological Emulsions' team
Laboratoire de Physique de l'École Normale Supérieure de Paris**

The laboratory of Dr. Thiam at the École Normale Supérieure (ENS) in Paris is recruiting a Research Engineer or Postdoctoral Researcher with expertise in cell and molecular biology. Our lab combines cell biology and biophysics to investigate how cells manage lipid metabolism. We aim to uncover how organelles communicate and adapt their biophysical properties to balance lipid storage, mobilization, and reuse in response to changing energy demands.

Theme. The research for this position is to explore how cells coordinate lipid fluxes to adapt to metabolic needs and environmental cues. Lipid metabolism is a dynamic process that requires the fine-tuned storage, mobilization, and reuse of lipids, processes that are tightly coupled to cellular energy homeostasis. A central question we pursue is how cells orchestrate lipid fluxes through organelle crosstalk and biophysical changes in response to energy demands. Specifically, the hired person will investigate how specific organelles adapt to regulate lipid synthesis, how the biophysical properties of membranes and organelles change in response to varying metabolic states, and how signaling pathways integrate with physical constraints to ensure a proper balance between lipid storage and energy production. By combining quantitative biophysics, advanced imaging, and classical cell biology approaches, our aim is to unravel the molecular and physical principles underlying lipid homeostasis and organelle dynamics.

Candidate profile. We are seeking a motivated candidate with training in cell and molecular biology, ideally with experience in the following areas: Mammalian cell culture, Microscopy (confocal, fluorescence, and live-cell imaging), Western blotting and biochemical assays, classical cell biology approaches, and Cell line development and genetic manipulation, which is a bonus. Experience in lipid biology, organelle dynamics, or signaling pathways is a plus. Above all, we value curiosity, motivation, and willingness to learn in a multidisciplinary environment.

Our environment. LPENS offers a unique interdisciplinary setting, bringing together expertise in biology, physics, and chemistry. Our group thrives in a friendly and collaborative atmosphere, benefiting from access to cutting-edge imaging and cell biology facilities, as well as a stimulating international research community.

Position details. Location: 24 rue Lhomond, 75005, Paris. Position: Postdoctoral Researcher. Starting date: As soon as possible. Contract duration: two years.

Application. Please send your application (CV, cover letter outlining your motivation and interests, and contact details of at least one referee) to Abdou Rachid THIAM, thiam@ens.fr.