

Postdoctoral researcher position

DNA Origami Molecular Tools to Investigate and Interact with Biological Systems

We are seeking motivated candidate for a postdoctoral position at CiTCoM lab (Cibles Thérapeutiques et Conception de Médicaments), localized at Université Paris Cité, on the Faculty of pharmacy in Paris, France. This is a full-time 24-month position focusing on the development and implementation of new molecular tools based on DNA nanotechnology for the study of biological systems. The project is funded by the French National Research Agency and will be carried out under the supervision of Nesrine Aissaoui.

Our laboratory develops and exploits the modularity and the high degree of addressability of self-assembled DNA nanostructures as a biosynthetic tool to probe fundamental aspects of biology. Some of our studies include: the creation of molecular imaging template for single-particle cryo-Electron Microscopy (cryo-EM); the construction of bio-inspired systems; and dynamic molecular systems for bio-sensing applications.

Position offer

We are looking a highly motivated recent PhD graduate with expertise in Nanotechnology, Biophysics, or Structural Biology, and a strong interest in applying this knowledge to biology. The recruited postdoc will develop two main projects: (1) the creation of a molecular template to hold proteins to facilitate molecular imaging by single-particle cryo-Electron Microscopy (cryo-EM); and (2) the development of DNA-based nano-machines and nano-robots as a drug delivery vehicles.

Candidate

Enthusiastic and motivated applicants should have a strong background in Biophysics, Structural Biology or Biochemistry. Experience in the field of Electron Microscopy is highly desirable.

Candidates are invited to submit a complete CV with a list of publication, a motivation letter, and two references send letters of recommendation to nesrine.aissaoui@u-paris.fr