



LABORATOIRE DE PHYSIQUE THÉORIQUE ET MODÈLES STATISTIQUES
CNRS & UNIVERSITÉ PARIS-SUD – ORSAY – FRANCE

LABORATOIRE PHYSIQUE ET MÉCANIQUE DES MILIEUX HÉTÉROGÈNES
CNRS & ESPCI – PARIS – FRANCE

Postdoctoral position available

We welcome applications from postdoctoral candidates interested in developing **numerical and/or analytical theoretical approaches to cytoskeleton biophysics**. We aim to elucidate the interactions between vimentin intermediate filaments and actin in collaboration with experimentalists Cécile Leduc (Institut Jacques Monod) and Gregory Giannone (Bordeaux), as well as the mechanics of branched actin in collaboration with local and international collaborators. The goal of the project is to elucidate how the mechanics of cytoskeletal networks are determined by their microscopic components and mechanical history, and how the structures of coexisting actin and vimentin networks mutually influence each other and are regulated by mechanical stress. More details at

<http://www.lptms.universite-paris-saclay.fr/membres/mlenz/research.html>

The postdoc will join a dynamic group spearheading research at the Soft Matter/Biology interface in two world-class institutes, one focused on theoretical Statistical Mechanics and the other on experimental Soft Matter, Hydrodynamics and Biophysics. The position presents ample opportunities for strong interactions with local and international collaborators. **Autonomous interactions** and the **development of creative independent projects** are encouraged. Teaching and outreach opportunities are available to those interested.

The postdoc will be employed by CNRS, France's largest and most recognized research institution. Funding is available for at least **two years of employment**. The hosting laboratory, LPTMS, is joint unit of CNRS and Université Paris-Sud with a markedly international atmosphere. Located in Orsay, it is **30 minutes away from central Paris via a frequent, direct commuter train**. Depending on the project, **the postdoc may spend a significant fraction of her or his time at PMMH**, an ESPCI laboratory located in **central Paris** where the PI has a secondary office.

The net salary for the position ranges between 2320 €/month and 3300 €/month depending on experience. Benefits include free full healthcare coverage for the postdoc and his or her dependents, generous vacations, 16-weeks fully-paid maternity leaves, free schooling from age 3 and subsidized child care for younger children. CNRS additionally subsidizes vacations, sports and cultural activities for its employees.

The position will begin **preferably in the late Fall or Winter of 2023**, although later appointments are also possible. Review of applications will continue until the positions are filled. For primary consideration, applicants are encouraged to apply before October 15th 2023. The successful candidate will hold a Ph.D. by the start date and have strong background and research achievements in a field related to the project of interest. Applications will comprise the names of three references, an application letter, a CV and a publications list including preprints. Informal inquiries welcome.

Contact:

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