



2- year postdoctoral position

Tuning mechanical properties of foams by surfactant surface freezing

We are looking for a highly motivated candidate to work on the creation on controlled interfaces and foams through solidification of surfactants. The candidate will work at University Paris-Saclay between three closely situated research laboratories Laboratoire Physique des Solides (LPS) of Université Paris Sud, SOLEIL synchrotron (SIRIUS beamline) and Laboratoire Léon Brillouin (LLB).

Interfaces and foams of surfactants at high ionic strength will be characterized both for their structural and mechanical properties through a combination of scattering techniques (grazing incidence wide-angle X-ray scattering, neutron and X-ray reflectivity, small angle neutron scattering) and surface and bulk rheology and photography. The combination of laboratories ensures expertise in all of the techniques.

The candidate should have an enthusiasm for top-quality collaborative research, as he or she will be an integral part of our team and will ensure the link between the different groups.

The prerequisite is a PhD in physics/chemistry. Experience in the study of interfaces or in scattering techniques is an advantage, but not a prerequisite. The position is open and the starting date should be at the latest by 1st October 2019. We will receive applications until 15th May 2019.

The salary depends on experience and can be up to 2400€ net per month.

Interested candidates should email their CV with the names of two professional referees to Anniina Salonen anniina.salonen@u-psud.fr

For further information on the research groups and their activities go to:

LPS : <https://www.equipes.lps.u-psud.fr/mmoi/?lang=en> François Boulogne and Anniina Salonen

LPS : <https://www.equipes.lps.u-psud.fr/matrix/spip.php?rubrique39> Stéphan Rouzière

SOLEIL : <https://www.synchrotron-soleil.fr/fr/lignes-de-lumiere/sirius> Philippe Fontaine

LLB : <http://www-llb.cea.fr/en/index.php> Fabrice Cousin

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