Hydrodynamic simulations of out-of-equilibrium soft materials

We welcome applications from candidates interested in computational modelling of soft materials. The project is funded by the Initiative d’Excellence de l’université de Bordeaux (IdEx Bordeaux).

The primary focus of the project(s) is hydrodynamic modelling of out-of-equilibrium complex fluids using lattice Boltzmann simulations. Examples of possible projects include: (hydro)dynamics of liquid crystalline emulsions/droplets (where the components can be either active or passive). It is also possible to consider project(s) in wider concept of out-of-equilibrium soft materials, for example the hydrodynamics of microswimmers, and driven colloidal fluids.

The position is for a duration of 18 months starting from June 2019. The review of applications will start in April and the position remains open until filled.

Candidates should have a PhD by starting date and have a strong background and interest in simulations of soft materials.

Profile – PhD degree in physics, engineering, mathematics, chemistry or related field. Strong experience in the simulations of soft matter and willingness to learn. Strong communication skills in English. Experience in programming.

Location – The laboratory LOMA ([https://www.loma.cnrs.fr/](https://www.loma.cnrs.fr/)) is located at the Talence campus, 15min tram ride away from the historic city centre of Bordeaux.

Application – The application consists of a CV, full publication list, a cover letter and the contact details of three references and should be sent to Juho Lintuvuori (juho.lintuvuori@u-bordeaux.fr) preferably in a single pdf.

Informal enquiries are welcome.

Contact - Juho Lintuvuori (juho.lintuvuori@u-bordeaux.fr)

https://www.loma.cnrs.fr/juho-lintuvuori/