

Postdoc offer at Laboratoire Léon Brillouin

Laboratoire Léon Brillouin

The Laboratoire Léon Brillouin (LLB) is a French Research Infrastructure jointly supported by the 'Commissariat à l'Energie Atomique et aux Energies Alternatives (CEA)' and the 'Centre National de la Recherche Scientifique (CNRS)'; it builds and operates spectrometers around Orphée, a 14MW reactor. The LLB is rather unique among neutron centers worldwide because it was specified from the outset to operate both as a large-scale facility open to a user community as well as a research institute in charge of developing its own research programs. In view of the duality of its mission, the objectives of the LLB are to perform research in its own scientific programs, to promote the use of diffraction and neutron spectroscopy, to welcome and assist experimentalists, subsequently ensuring training and education, and providing access for industrial partners. These activities are enduring and complementary to international centers, such as the Institute Laue-Langevin or the future European Spallation Source in Sweden, and cooperation programs with other national centers.

<http://www-llb.cea.fr>

Requirements

A young and strongly motivated postdoctoral scientist with a background in neutron science is sought to prepare Small Angle Neutron Scattering (SANS) data acquisition by time of flight (TOF) method and their data treatments at LLB (Saclay, France). The candidate is expected to develop TOF techniques in SANS on a very new world class spectrometer (PA20); moreover these developments could be transferred and validated at the ESS for the SANS spectrometers of the next generation and strong connection with Swedish Universities should be established within that period. The successful candidate will be part of the Large Scale Structure group of LLB, with assignment to SANS instruments suite at LLB (3 existing spectrometers and one under construction, PA20).

The position will also allow the successful candidate to develop her/his own scientific program by taking advantage of the large in-house capabilities in soft matter and bio-inspired systems research including neutron and support laboratories and access the large scientific area around the 'plateau de Saclay'.

Qualifications

Candidates are expected to have a PhD or similar in physics, chemistry or life sciences. Experimental experience with radiation techniques (X-rays or neutron scattering) is a prerequisite. Programming skills and knowledge of neutron instrumentation would be advantageous. Oral and written french skills are desirable.

What LLB can offer?

Opportunity to work in an international environment and develop collaborations in particular with Swedish researchers.

Unique opportunity to be involved from an early stage, in the development of methods for the European Spallation Source, the future world-leading center for materials research.

Duration & Location

The position is a one year renewable term employment agreement by CEA, CNRS, LLB. The successful candidate will be located at LLB, Saclay, France.

Start date

The position is to be filled in 2013.

Application & Contact

annie.brulet@cea.fr