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VACANCY

The Institut Laue-Langevin (ILL) is an international centre for scientific research situated in Grenoble, France. It is Europe's leading neutron science facility. We receive over 2000 visiting scientists per year to carry out world-class research in a wide variety of scientific fields. Our Science Division currently has a vacancy for a:

Research Scientist (F/M) - SUPERADAM -

Duties:

The Large Scale Structures (LSS) group comprises a range of instruments designed to carry out studies on the structure of matter on a scale from a few Ångströms to hundreds of nanometers. The range of science covers polymer and colloid science, structural biology, materials science and magnetism. Working within the LSS group as part of the Super ADAM team, while carrying out your own active research programme on magnetic structures and thin films, you will be in charge of:

- co-running the Super ADAM reflectometer participating both in the day-to-day operation of the instrument, as well as its technical development and upgrades,
- providing support to users for scientific experiments and offering guidance with data analysis,
- promoting scientific partnerships in your field of research,
- participating in the longer term development of instrumentation, sample environment and data analysis.

Super ADAM is a fixed wavelength reflectometer for analysis of surfaces and thin film materials. The instrument is jointly funded by the Swedish Research Council and governed by Universities of Uppsala, Lund and Linköping. It operates as a polarized neutron reflectometer that is optimized for the study of magnetic nanostructures, superconductivity, thin films and multilayers. A low-resolution option that will enable studies in soft matter and life sciences is currently under development.

Qualifications and experience:

- Ph.D. in physics or materials science and experience in neutron or x-ray reflectometry on magnetic systems.
- Experience in development of data reduction and analysis software including low-level kernel driver programming, large-scale high precision data acquisition systems and signal processing.
- Experience in SPEC instrument control software including in-depth knowledge of macro control language and spec server hardware facility would be an advantage.
- Good general knowledge of kinetic and distorted wave approximations and their numerical computation practices.

We are particularly interested in highly motivated candidates who must carry out a personal research programme and contribute to the scientific environment at the ILL.

The post represents an excellent opportunity to develop expertise, broaden experience and interact with leading scientists from around the world. Applications from more experienced scientists able to obtain a secondment period from their home institution will also be considered.

Language skills:

As an international research centre, we are particularly keen to ensure that we also attract applicants from outside France. You must have a sound knowledge of English and be willing to learn French (a language course will be paid for by the ILL). Knowledge of German would be an advantage.

Notes:

5-year fixed-term contract.

Further information can be obtained by contacting Dr. G. FRAGNETO- Head of the LSS Group, tel: +33(0)4.76.20.70.62, e-mail: fragneto@ill.eu or via www.ill.eu/fr/lss (please do not send your application to this address).

Benefits:

Generous company benefits (expatriation allowance), relocation assistance and language courses may be offered (for more information, please consult our [employment conditions](#)).

How to apply:

Please submit your application on line with a list of publications and the names of **3 references**, including one from your present work place, **no later than 26.05.2019**, via our website: www.ill.eu/careers (Vacancy reference: 19/24). **The interviews will take place on Tuesday 11 and Friday 14 June 2019.**

We are committed to equal opportunity and diversity; we therefore encourage anyone with relevant qualifications to apply.