

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. The Science Division currently has a vacancy for a:

Research Scientist (f/m) - NEUTRON IMAGING -

Duties:

The LSS group comprises a range of instruments designed to carry out studies on the structure of matter on a scale of fractions of to hundreds of nanometers. These include instruments for small-angle scattering, reflectometry, diffraction from single crystals or one or two-dimensionally ordered materials. The range of science covered is very broad, from polymer and colloid science through structural molecular biology to materials science and magnetic phenomena. The group is about to start a new public neutron imaging beam-line, based on a very successful pilot project (Next), which has been running for the last 3 years on the instrument D50. This new instrument will be world leader, also thanks to the uniquely high neutron flux, and will offer a panoply of imaging techniques from polarised neutron to simultaneous x-ray/neutron imaging. The project will be developed in the upcoming two years and will be operational by end 2020.

Working within the LSS Group in the field of Neutron Imaging in addition to carrying out your own active research programme, you will be in charge of:

- co-developing a new imaging instrument as well acting as local contact for the ongoing tomography instrument,
- managing the instrument, participating both in the day-to-day running and its technical development,
- providing support to users for scientific experiments and helping them collect data under optimum conditions,
- promoting scientific partnerships in your field of research,
- participating in the longer term development of sample environment and data analysis ,
- work within the neutron imaging team (Instrument Scientist, Scientific Associates, Engineers, Software Developers) and with scientists and other ILL staff members to develop a strong scientific program using neutron imaging.

You will participate in an international project joining a team including an ILL/UGA Chair, a CNRS scientist, senior scientists from HZB and ILL, as well as a broad team of neutron, tomography and data processing experts from several institutions. ILL is looking for an outstanding person to add to this team, with a strong imaging and/or neutron background

Qualifications and experience:

Ph.D. in Physics, Metallurgical Engineering, Materials Science and Engineering or similar background will be considered.

You are competent in neutron and/or x-ray imaging and are interested in image processing/coding and have a propensity for experimentation, including in operando testing in the domain of material sciences. You have strong written and oral communication skills and the desire to work in a team environment on scientifically challenging problems. You have experience in neutron or x-ray technique development.

The post represents an excellent opportunity for young postdoctoral scientists 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:**Fixed-term contract of 5 years**

Further information can be obtained by contacting Dr. Alessandro Tengattini, tengattini@ill.fr +33(0)4.76.20.80.50 or the head of the LSS Group: Dr. Giovanna Fragneto, fragneto@ill.fr , +33(0)4.76.20.70.62.

Benefits:

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

How to apply:

Please submit your application with a list of publications and the name of 3 references (including one from your present work place) on-line, no later than **11/11/2018**, via our web site: <http://www.ill.eu/careers> (vacancy reference: **18/45**). **The interviews will take place by mid January 2019.**