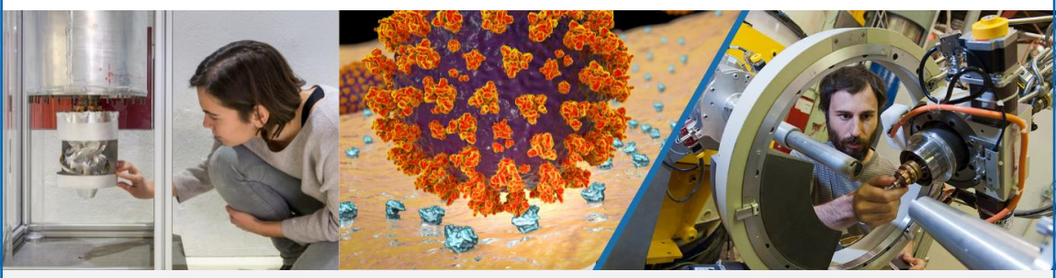
Give your career a new dimension



Research Scientist - Neutron Imaging - F/M

5 years fixed-term contract

Group's mission

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 has recently started a new public neutron imaging beam-line, Next/MoTo. An ambitious upgrade project is now in the execution phase that will provide a panoply of imaging techniques from polarised neutrons to simultaneous x-ray/neutron imaging. Also due to the uniquely high neutron flux and with an additional side-station offering a monochromatic beam, this new instrument will be in a world-leading position when it will be fully operational by 2023.

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.

Your tasks

- 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.

Your profile

- 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.

What we offer

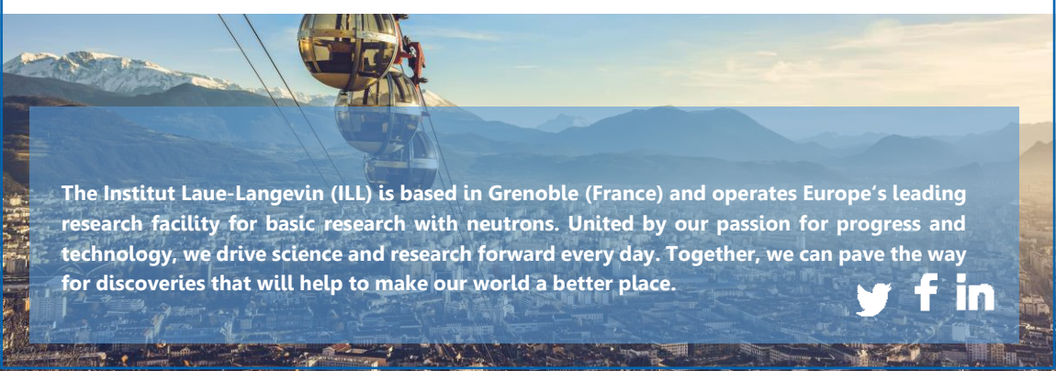
Quality of life – A hub for research and technology, the city of Grenoble is ideally located in the heart of the French Alps (just 3 hours from Paris/Provence by train, 1 hour from Lyon international airport and 1 ½ hours from Geneva). It is important for us that our staff achieve a healthy work-life balance. We therefore offer home working (under certain conditions), generous annual paid leave entitlement and a host of other benefits that you will discover when you arrive!

Prospects - We guarantee you a stable **5 years fixed-term contract** in a multicultural scientific environment.

Benefits - We offer generous social benefits (expatriation allowance, excellent health cover), moving and relocation assistance (under certain conditions) and an annual productivity bonus. We also offer language courses for you and your partner and subsidies for the use of public transport and the staff canteen, as well as for holidays and a variety of cultural and sports activities.

Sounds interesting?

Then why not take your next career step with us by applying online - preferably in English - via our career portal by **04.09.2022**, quoting reference number **22/31** with a list of publications and the names of 3 referees, including one from your present work place. Please note that all applicants are subject to administrative screening. For this post, medical fitness for work under ionising radiation is required. We are committed to equal opportunities and diversity and therefore welcome applications from all suitably qualified candidates.



The Institut Laue-Langevin (ILL) is based in Grenoble (France) and operates Europe's leading research facility for basic research with neutrons. United by our passion for progress and technology, we drive science and research forward every day. Together, we can pave the way for discoveries that will help to make our world a better place.