

The Institut Laue-Langevin ([ILL](#)), situated in Grenoble, France, and founded by France, Germany and the United Kingdom, is Europe's leading research facility for fundamental research using neutrons. The ILL operates the brightest neutron source in the world, reliably delivering intense neutron beams to 40 unique scientific instruments. Every year the Institute hosts over 2000 visits by scientists, who come to carry out world-class research in solid-state physics, crystallography, soft matter, biology, chemistry and fundamental physics. The Projects and Techniques Division, which is responsible for the development of the ILL's instruments and for technical support, currently has a vacancy in its Neutron Optics Service for an:

Instrument Technician (M/F)

Duties:

You will join the Monochromator Group, a five-person team responsible for the production of crystals for the Institute's neutron monochromators. You will be in charge of the ILL's x-ray laboratory, which houses equipment for the volume characterisation of single crystals using x-ray diffraction.

You will be responsible for:

- the preparation and characterisation of mosaic crystals for neutron monochromators;
- ensuring that the experimental equipment in the laboratory is maintained and kept in good working order;
- monitoring the maintenance of the x-ray generator;
- mounting and aligning crystals on the mechanical assemblies of the monochromators;
- maintaining the Institute's existing monochromators;
- ensuring compliance with the safety regulations in force at the Institute.

You will report directly to the engineer/scientist in charge of the service.

Qualifications and experience

- Level 4 qualification (NVQ, HNC or equivalent) specialising in instrumentation or materials engineering.
- Some initial experience, preferably in the field of materials or x-ray diffraction, would be appreciated.
- You are particularly interested in the science of materials and the characterization of their properties.

- You are able to work independently, with a methodical and meticulous approach to your work and a keen eye for detail.
- Good teamwork skills are essential to be able to report on and share the results of your work.
- You are able to use your ingenuity and creativity to satisfy unique and changing demands.
- A basic knowledge of mechanical engineering (conventional machining) and proficiency in SolidWorks would also be an asset.

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:

This post is a permanent contract.

Medical fitness for work under ionising radiation is required.

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,
no later than 03/11/2019,

[via our website:](#)
(vacancy reference : 19/43).

Confirmar candidatura a: eures.franciasuizabeneLux@sepe.es

indicando la referencia: **ILL 19/43**