

## VACANCY

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 and operates the brightest neutron source in the world. The ILL's Reactor Division, whose role is to produce the neutrons needed to supply the ILL's scientific instruments, is responsible for operating all the technical installations associated with the reactor. It currently has a vacancy for a:

### Project Engineer – Nuclear Manufacturing

#### Duties:

The Mechanical Engineering Service is part of the ILL's Reactor Division and is responsible for the maintenance of the technical equipment associated with the high-flux reactor. Reporting to the Head of Service, you will be responsible for monitoring the manufacture of a number of spare components for the reactor block and will be involved in the updating of regulatory compliance documents for nuclear pressure equipment. In this context, you will work under the supervision of a senior engineer, who is in charge of mechanical manufacturing projects and is also ILL expert for issues relating to nuclear pressure equipment (known as ESPN - *Equipements Sous Pression Nucléaires*).

Your main tasks will be to:

- Monitor the manufacture of equipment that is subject to the regulations governing ESPN or to the provisions of the so-called "INB decree" governing French basic nuclear installations (equipment subject to quality control):
  - Draft the manufacturing specifications with the aid of existing templates,
  - Check the component drawings produced by the design office,
  - Produce the technical documentation for calls for tender and select manufacturers,
  - Produce the manufacturing documentation necessary for conformity assessment by the relevant approved certified body,
  - Monitor the manufacturing stages (procurement, machining, inspection, validation, gap analysis, etc.),
  - Validate the final acceptance of the equipment.
- Update the regulatory documentation for the nuclear pressure equipment associated with the reactor:
  - Review and complete the list of all the ILL's nuclear pressure equipment (ESPN),
  - Reassess the condition and thermal and mechanical loading of all ESPN, draft the summary documents for the safety report and verify the coherence of the current ESPN classifications.

In this post, you must be able to assume a high level of autonomy quickly.

#### Qualifications and experience:

- Level 7 qualification (Master's degree or equivalent) in mechanical engineering or metallurgy, together with at least 5 years' professional experience,
- Knowledge of metalworking and welding (GMAW/MIG, GTAW/TIG or electron beam), ideally on the aluminium alloy Ag3Net, stainless steel or Zircaloy,
- Experience of manufacturing within a nuclear quality assurance framework,

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

- Knowledge of regulations governing nuclear pressure equipment (ESPN) and of design and construction codes of the type RCC-MRx (or RCC-M) for mechanical components for reactors,
- Excellent writing skills (procedures, technical specifications, compliance with French regulations, etc.),
- You have excellent interpersonal skills and will be required to work with several different actors (workshop staff, suppliers, inspection bodies).

### Language skills:

As an international research centre, we are particularly keen to ensure that we also attract applicants from outside France. Fluency in French is required. Knowledge of English and/or German would be an advantage.

### Notes:

Specified-purpose 3-year fixed-term contract.

**Medical fitness for work under ionising radiation is required.**

**Post based in GRENOBLE, France, and subject to administrative screening.**

### 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 **21/02/2021**, via our website: [www.ill.eu/careers](http://www.ill.eu/careers) (vacancy reference: **21/05**).