

The Institut Laue-Langevin (ILL) is an international centre for scientific research situated in Grenoble, France. It is Europe's leading neutron science facility and every year hosts over 2000 visits by scientists. IRT Nanoelec (Technological Research Institute in nano-electronics) is a public-private consortium which develops information and communication technologies for Grenoble's innovation ecosystem. The ILL is a partner of IRT Nanoelec.

Situated at the crossroads of technology and science, the ambition of the “*Large-scale instruments Characterization*” programme of IRT Nanoelec is to foster innovation in the field of micro- and nano-electronics by providing a bridge between, on the one hand, Grenoble's large-scale research facilities, namely the ILL, the ESRF (European Synchrotron Radiation Facility) and the LPSC (Laboratory of Subatomic Physics and Cosmology), and, on the other hand, the CEA and several major industrial partners. Within the framework of this programme, the Platform for Advanced Characterization – GRENOBLE (PAC-G) has been set up in order to satisfy the advanced characterisation needs of industry, and in particular the electronics sector.

To strengthen its activities in the “*Large-scale instruments Characterization*” programme, the ILL is looking for a:

Research Engineer in Microelectronics Characterization (M/F)

You will contribute to the success of the programme and its operational structure, the PAC-G platform, by developing the scientific and technical activities of the ILL that are relevant for the micro/nano-electronics sector.

You will have the following tasks:

- Operating the instrument D50 (reflectometry, tomography and neutrons irradiation) and the programme's x-ray reflectometry / x-ray diffraction system; you will be responsible for these two installations and may act as Local Contact.
- Acquiring/processing experimental data and interpreting the results; publication of scientific articles and editing of reports.
- Fostering relationships with companies in the micro/nano-electronics sector and with the programme's partners in order to analyse their characterization needs and promote the application of neutron techniques in R&D.
- Contributing to the development of the service offering of the PAC-G platform and to enhancing the programme's visibility in Europe.

Experience and qualifications:

- You have an advanced degree (minimum Master's or equivalent) in microelectronics (or a similar subject), together with some initial experience of working in R&D in a relevant sector, ideally in the electronics industry or in a large-scale research facility.
- Knowledge of the characterization techniques for microelectronics would be an advantage.
- Thanks to your excellent communication skills, you are able to build strong relations with industry.

Languages skills:

As an international research centre, we are particularly keen to ensure that we also attract applicants from outside France. Excellent oral and written skills in both French and English are essential. Knowledge of German would be an advantage.

**Fixed-term contract with a minimum duration of 24 months.
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 **04/03/2018**, via our website: www.ill.eu/careers/ (vacancy reference: **18/05**).

We care about equal opportunities and diversity; we therefore encourage anyone with the relevant qualifications to apply.