



[www.ill.eu](http://www.ill.eu)

## VACANCY

The Institut Laue-Langevin (ILL), situated in Grenoble, France, 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. The Institute welcomes more than 2000 visiting scientists per year to carry out world-class research in solid-state physics, crystallography, soft matter, biology, chemistry and fundamental physics. Funded primarily by its three founder members: France, Germany and the United Kingdom, the ILL has also signed scientific collaboration agreements with 12 other countries. The Science Division currently has a vacancy :

### RESEARCH ENGINEER (m/f) in programming

#### Duties:

The ILL is part of a European collaborative project called "NMI3-II" involving different neutron scattering facilities. The NMI3-II software workpackage provides funding to evaluate solutions for inter-facility, data analysis software development and produce prototype software. ISIS and SNS (spallation source-based, neutron scattering facilities in the UK and the USA respectively) are currently developing software called Mantid (<http://www.mantidproject.org>) that should be considered as a possible solution. The purpose of the prototype in this project is to treat experimental data from instruments at reactor-based facilities, inelastic scattering data from Triple-Axis-Spectrometers being a typical example. Once familiar with the requirements of the software package, you will collaborate with **the development team, the Computing for Scientific group at ILL** and other partners of the project to develop a software prototype.

#### Qualifications and experience:

You either hold a PhD in physical sciences with a keen interest and proven ability in scientific computing, or a Master's degree or equivalent in computing with experience working in a scientific environment and collaborating effectively with scientists. Previous experience working with neutrons or X-rays would be an asset. You are highly motivated and are able to write codes using modern languages such as Python and C++ and modern tools like the software forge (SVN, Eclipse).

#### 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. Knowledge of German would be an advantage.

#### Notes:

This is a fixed-term contract of a minimum 18- month duration.

#### Benefits:

Generous company benefits (expatriation allowance), relocation assistance and language courses may be offered.

#### How to apply:

Please submit your application on line, no later than **XX.XX.2012**, via our website: <http://www.ill.eu/careers>  
(Vacancy reference: 12/XX)

*In line with our policy of Equal Opportunities, we encourage both men and women with relevant qualifications to apply.*