

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, and hosts over 2000 visits by scientists per year, who come to carry out world-class research in a wide variety of scientific fields.

Are you interested in joining our international institute? We currently have a vacancy for a:

Research Scientist PF2 (m/f)

Duties:

Working within the Nuclear and Particle Physics (NPP) group, you will be co-responsible for the instrument PF2 for experiments with ultracold and very cold neutrons (UCNs and VCNs) and will actively take part in ongoing developments of novel sources for ultracold neutrons based on superfluid helium. You will:

- Support the experimental programmes pursued by user groups, which include the search for the neutron electric dipole moment, studies of quantum states of the neutron in the Earth's gravity field, accurate determinations of the neutron lifetime and various experiments in neutron optics and on quantum mechanical phenomena.
- Contribute to studying possibilities to enhance the output of this high-current UCN and VCN source and develop new tools for UCN transport, distribution and manipulation.
- Pursue your own active research programme and establish scientific collaborations.

Qualifications and Experience:

- PhD, preferably in nuclear or particle physics.
- Experience and a strong interest in the development of instrumentation.
- Strong organisation skills and a highly motivation.
- A firm knowledge in low-energy particle physics and neutron optics would be useful.
- Applicants bringing in experience from other fields, such as, e.g., surface science, are also encouraged to apply.

The post represents an excellent opportunity for a young postdoctoral scientist to develop expertise, broaden experience and interact with leading scientists from around the world.

ON LINE APPLICATION

CLOSING DATE FOR SUBMISSIONS: 27/05/2018 - Ref 18/15

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Remitir Copia de la candidatura a: eures.franciasuizabeneLux@sepe.es

indicando la referencia: **ILL 18/15**