



The ESRF is a multinational research institute, situated in Grenoble, France and financed by 21 countries mostly European. It operates a powerful synchrotron X-ray source with some 30 beamlines (instruments) covering a wide range of scientific research in fields such as biology and medicine, chemistry, earth and environmental sciences, materials and surface science, and physics. The ESRF employs about 600 staff and is organized as a French *société civile*.

Within the Experiments Division, the Electronic Structure and Magnetism group is now seeking to recruit a:

## Post-Doctoral Fellow (m/f) for beamline ID12

### THE FUNCTION

You will join the team in charge of operating and upgrading the ESRF beamline ID12 which is dedicated to polarisation dependent X-ray spectroscopies in the energy range between 2 and 15 keV. The beamline provides unique insights into fundamental properties of matter *via* various order parameters, e.g., spin and orbital moments, electric dipole moment, orbital anapole *etc.* Matter often reveals new intriguing properties when subjected to extreme conditions such as high magnetic field, electric field and high pressure in combination with low temperature. The macroscopic and *a fortiori* the microscopic magnetic properties of materials ranging from bulk down to low dimensional systems under such extreme conditions remain largely unexplored. Beamline ID12 offers unique possibilities to study magnetic properties of matter under an applied magnetic field of up to 17 Tesla, at temperatures down to 2 K and under pressures above 50 GPa. In joining the beamline team, you will participate in this exciting research programme, in the support for external users, in further developments of the experimental techniques at the beamline, and follow your own research project.

### QUALIFICATIONS AND EXPERIENCE

Candidates should hold a Ph.D. in Physics, Physical Chemistry, Material Science or similar. Experience in areas such as X-ray spectroscopies and/or scattering is desired. A solid background in magnetism is equally important. A good practice of low temperature techniques would be appreciated.

### ADDITIONAL INFORMATION

**The working language of the ESRF is English.** Further information on the post can be obtained from Andrei Rogalev (tel.: +33(0)4 76 88 21 32, email: [rogalev@esrf.fr](mailto:rogalev@esrf.fr)). For further information on employment terms and conditions, please refer to <http://www.esrf.fr/Jobs/Conditions>. The ESRF is an equal opportunity employer and encourages applications from disabled persons.

***Contract of 18 months, renewable for a further 6 to 18 month-period. Only candidates holding a Ph.D. obtained less than 3 years ago are eligible for Post-doctoral positions.***

**If you are interested in this position, please apply on-line at this address:**  
<http://www.esrf.fr/Jobs>.

**Ref. PDID12-1- Deadline for returning application forms:  
07 June 2015**

ESRF, Personnel Service - Recruitment  
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