# Beamline scientist ID27

## Context & Job description

The beamline ID27 is a premier X-ray powder and single crystal diffraction station fully optimized for the Extremely Brilliant Source and primarily dedicated to research at extreme pressures and temperatures.

The combination of high resolution XRD and advanced sample environments (double-sided laser heated diamond anvil cells, helium flow cryostats and Paris-Edinburgh large volume press) open up many new possibilities in the study of matter at very high pressures and temperatures.

The successful candidate will play a major role in the running and further development of the High-Pressure beamline as well as in the other activities of the Matter at Extremes group. User support will be a key activity which will provide much opportunity for collaborative work at the frontiers of the field. Beamtime will be set aside for in-house research and the beamline scientist will be given the opportunity to develop his own research programme in close collaboration with the beamline team.

As a beamline scientist, you will be co-responsible for the sustained technical upgrading and development of the instrument which is essential to meet the high expectations of the user community.

## Expected profile

- First degree and Ph.D. in Physics or Materials science
- The candidate will be expected to have already conducted and published a significant amount of research work in preceding post-doctoral positions.
- Experience with high-pressure techniques (large volume and/or diamond anvil cells) and good experimental skills are essential.
- Synchrotron radiation experience, more particularly in XRD instrumentation, is also very desirable.
- Proficiency in English (working language at the ESRF)

## Working conditions

**5 years fixed-term position.**

We offer a comprehensive benefits package designed to support your quality of life and your installation in the Grenoble area when relocation is needed.

The monthly salary may be complemented by additional allowances upon eligibility (expatriation allowance, etc.).

**On-line application at:** https://esrf.gestmax.eu/search