

Post-doctoral Position – PROXIMA 1

Experiments Division

The position will open in November 2010. Deadline for submission of applications is **10th September 2010**.

SOLEIL is an optimized 2.75 GeV synchrotron light source of 3rd generation operating 25 km south of Paris. The first 17 beamlines, several of which are using new concepts of undulator sources, are opened to users. A total of 26 beamlines, covering the whole energy range from IR to hard X-rays and providing a complete panel of synchrotron radiation-based outstanding experimental tools for Physics, Chemistry, Biology and Environmental Sciences, will be operational in 2012. A permanent staff of 357 people operates the installation. Currently the 17 beamlines in operation offer a broad panel of SR-based techniques from microspectroscopy in IR and VUV to X-ray absorption, diffraction and scattering.

The PROXIMA 1 beamline, using radiation from an in-vacuum U20 undulator installed in a short straight section, is dedicated to macromolecular X-ray crystallography in the energy range 5-15 keV. The beamline also offers the possibility of linking diffraction and other spectroscopic measurements on crystalline samples. It is equipped with a 3 circle kappa goniostat to choose sample orientation with respect to the X-ray beam. The beamline was specifically designed to allow measurements from crystals with very large unit cell dimensions and to measure with high accuracy anomalous differences for MAD or SAD phasing experiments in the above energy range.

1. Mission

We are seeking a motivated young scientist with a background in structural biology and an interest in instrumentation and/or methodology. As a member of the PROXIMA 1 beamline team, your main scientific mission will be to contribute to a research program focused on the structural characterization of proteins and complexes involved in RNA degradation in trypanosomatid parasites. You will also be involved in user support activities.

For further information, contact: Beatriz.Guimaraes@synchrotron-soleil.fr

2. Qualifications & Experience

The candidate holds a Ph.D. or equivalent in science related to structural biology.

You must have expertise in one or several of the following domains: production, purification and crystallization of recombinant proteins, X-ray crystallography, structure determination and analysis. Knowledge of biophysical characterization methods such as small angle X-ray scattering, circular dichroism, calorimetry, FTIR, Raman, will be much appreciated.

3. General conditions

The offer concerns a Post-doctoral contract for a two year-period. The place of work will be at Synchrotron SOLEIL, which is located in the Paris suburbs (Saint-Aubin).

Applications should include a motivation letter and Curriculum Vitae with the addresses of two referees. Applications should be preferably registered directly on the:

<http://candidature.synchrotron-soleil.fr/VotreCandidature/> with the reference: Post-Doc PROXIMA 1.