Beamline Scientist II
for the MX2(UVX) and MANACA(Sirius) beamlines

Function Description:
The Macromolecular Crystallography research group of LNLS has an open Scientist position for an outstanding experimentalist in x-ray beam line instrumentation for macromolecular crystallography.

The successful candidate should be heavily involved in the design and implementation of the upgrades and maintenance of the current MX beam line at the UVX source, MX2, and assist in the planning and implementation of the MANACA beam line at Sirius.

MX2 is a wiggler beamline dedicated to Macromolecular Crystallography. It operates on a 2.0 T hybrid 30-pole wiggler and its optical layout includes collimating mirror, Si (111) double-crystal monochromator and toroidal bendable mirror. The beamline will have a significant upgrade in early 2017. Parts of this station will later compose one of the planned experimental stations for MX at Sirius. The MANACA beamline will be a state-of-the-art beamline for MX, with two experimental stations with micro and sub-micron sized high brilliance beams, for applications in conventional and micro-crystallography using serial methods, and ligand screening for drug discovery.

The candidate will be expected to participate actively in the planning and commissioning of the new beamline, as well as to assist users in data collection and treatment, and to participate in research projects from the group.

Qualifications and experience:
We are looking for a creative, self-motivated individual, who has the ability and interest to pursue challenging, interdisciplinary problems in a fast paced research environment.

Applicants must have a Ph.D. degree in physics, chemistry, materials science, biophysics, engineering, or a related field.

Post-doc experience in the field is desirable but not obligatory.

The successful candidate should meet some of the following qualifications (although quick learning scientist with expertise in other areas could be considered in exceptional cases):
- Macromolecular Crystallography (from sample preparation to structure determination);
- X-ray beamline instrumentation.

Interested, please send CV, cover letter and letter of appointment to elisa.turczyn@lnls.br regarding “Vaga 87723”.