

# Job Opportunities for Postdoctoral Fellows and Research Associates in Peru

The NMR Center of the Chemistry Department at Pontificia Universidad Catolica del Peru (CERMN-PUCP) - in collaboration with the NMR & Molecular Interaction Group headed by Dr. Guy Lippens (CNRS-INSA Toulouse, France) - is looking for two (2) highly motivated research associates to work in a multidisciplinary environment within the scope of "Nuclear Magnetic Resonance for Food Sciences and Health Sciences".

## Chemistry Position - Food and health sciences metabolomics:

### Requirements:

- Ph.D. (or equivalent) in Chemistry.
- Hands-on experience in common analytical techniques and purification methods (e.g. NMR, MS, HPLC, GC, IR and FD).
- Strong interest in metabolomics with experience in high-throughput sample preparation.
- Experience in statistical data analysis is desirable.

**Description:** The work will mainly focus on the development and implementation of NMR-based methods to address biodiversity in plants and food products of economic importance in Peru and also in fluids associated with endemic diseases. Duties involve sample preparation, NMR / MS elucidation, and data processing. New lines of research are encouraged.

## NMR position - Biomolecular NMR and structural biology:

### Requirements:

- Ph.D. (or equivalent) in Chemistry, Biochemistry or Physics.
- Strong research experience in biomolecular NMR spectroscopy.
- Experience in DNA structure determination by NMR would be desirable.
- Previous experience with molecular biology and protein expression/purification.
- Experience in molecular modeling would be appreciated.

**Description:** Research projects underway involve the study of Trypanosomatid parasite virulent factors infection mechanisms, optimization of chemical sensing devices through structural characterization of complex Aptamer-ligand by NMR, among others. Independent research projects are encouraged.

All applicants should possess a strong publication record and some experience in leading projects. They must be self-motivated, team oriented, and should have excellent oral and written English communication skills (Spanish is not mandatory).

The successful candidates will have access to all the Chemistry Department facilities, including a 500 MHz NMR equipped with TCI cryoprobe, mass spectrometers, various optics and chromatography instrumentation. Funds to conduct research are available.

**Salary:** Up to 210,000 soles (approximately US\$ 60 k) per year based on qualifications.

**Period of employment:** 2 years

**How to apply:** Interested applicants that fulfill the requirements should send a cover letter, CV and two letters of recommendation to Dr. Helena Maruenda ([hmaruen@pucp.edu.pe](mailto:hmaruen@pucp.edu.pe))