

Offered Analytical Chemist - Engineer position

A 24 months' position is available at LABERCA (UMR1329 Oniris-INRAE, Nantes, France), in the frame of its Human BioMonitoring (HBM) platform. The position is available from September 2023.

Background

The HBM platform of LABERCA (ISO 9001 certified), has all facilities and cutting-edge mass spectrometry instrumentation (MS/MS and HRMS coupled to GC, LC and SFC) to assess human exposure to complex mixtures or organic chemicals. The end of 2023 will be devoted to the scaling-up of this biomonitoring activity, with the consolidation of a team of 4 people, consisting of a researcher in charge of the platform, a technician and two engineers, one of whom is the matter of the present recruitment.

Tasks

In relation with the platform manager and the technical support and innovation team of the laboratory, you will be in charge of setting up miniaturized and automated solutions for the preparation of human biological samples (urine and serum) in the scope of measuring markers of internal chemical exposure, in particular as a first stage organochlorine pesticides and PFAS. You will be responsible for the development, validation and training of the team, in the final objective of ISO 17025 accreditation of the developed methods.

Supervisors

Dr. Emmanuelle BICHON, Head of the development and innovation Unit

Ms Alicia GRIVAUD, Technical responsible of the HBM platform

Qualifications

We are looking for a highly motivated scientist with a Master or PhD degree and advanced experience in analytical chemistry applied to the analysis of chemical contaminants in biological matrices.

- Strong chemical background with a PhD in Chemistry, Analytical Chemistry or equivalent
- Strong hands on experience with:
 - Sample preparation (extraction, purification and fractionation techniques)
 - Chromatography coupled to mass spectrometry
- Data analysis
- Knowledge on accreditation body and quality management systems
- Good collaboration and communication skills (written and oral English)

Salary

The period of employment is 2 years, 2 200 euros net/month.

Application

Please submit your application no later than **15th July 2023**.

Applications must be submitted to emmanuelle.bichon@oniris-nantes.fr as **one pdf file** containing all materials to be given consideration. The file must include:

- A letter motivating the application (cover letter)
- A curriculum vitae
- 1 or 2 letters of support

You can read more about LABERCA on www.laberca.org

LABERCA's general domain of activity is the chemical food safety, in a global risk assessment perspective: generation and interpretation of exposure and body burden data, study of the transfer and metabolism of investigated chemicals from their sources to the consumers through the food chain. From an analytical point of view, the two main areas of competence of the laboratory are the treatment of complex biological samples for isolating the studied substances present at (ultra-trace)- level, and the hyphenated measurement of these compounds by various mass spectrometric coupling techniques. Besides these targeted approaches, the laboratory has been developing over the last 10 years an expertise in untargeted approaches (metabolomics) to reveal biomarkers of chemical exposure. The analytical platform is considered as one of the most complete at the national and European level (> 15 last generation MS instruments). All these activities (assays and research) are conducted under management quality system combining accreditation (ISO 17025, ISO 17043) and certification (ISO 9001:2015).