
Post-doc position

Profile: Analytical chemistry – Mass spectrometry – Exposome and emerging contaminants

Place: LABERCA UMR 1329 INRAE/Oniris VetAgroBioNantes (Nantes, France)

Preferred start date: January 2026

Duration: 24 months

Gross salary charged: 4200 € / month

Background

Oniris, LABERCA, France, is offering a 2-year postdoctoral contract in the field of analytical chemistry applied to the characterisation of organic contaminants in an interdisciplinary context integrating the food, circularity and environmental dimensions.

The work is part of two collaborative National and European research projects:

- TWINLOOP (ANR project, 2025-2029, 21 partners), focused on the characterisations of chemical contaminants in plastics intended for food contact recycling processes, using a variety of techniques.
- [PARC](#) (EU Horizon EU Cofund, 2022-2029), sub-project P4.3.3.b_Y2_E02-Sentinel animals_ONIRIS (15 partners) investigating animal species as sentinels of the environment and human chemical exposomes.

Objectives

- Development and application of non-targeted analytical methods (LC/IM/HRMS, timsTOF Pro II) for the detection and characterisation of organic contaminants in various matrices (plastics, bees, aquatic invertebrates).
- HRMS data acquisition and annotation, assessment of exposure profiles.
- Participation in the analysis of the chemical exposome within an interdisciplinary framework.
- Drafting scientific reports, contributing to the writing of articles and promoting results of the projects.

Qualifications

- Strong chemical background with a PhD in Analytical Chemistry or equivalent.
- Hands on experience with analytical method development and advanced data analysis within chromatography and HRMS workflows.
- Experience or knowledge about chemical contaminants, food safety and exposome.

- Good collaboration and communication skills (written and spoken English).

Work environment

The post-doctoral fellow will join a dynamic team in a recently renovated and very well-equipped laboratory, with more than 25 mass spectrometers using a variety of technologies (Orbitrap, QTOF, IMS, GC-MS/MS, LC-MS/MS, etc.). Based in Nantes, France, LABERCA offers a stimulating environment at the interface between academic research and public expertise.

Application

Applications must be submitted to ronan.cariou@oniris-nantes.fr as one pdf file containing all materials to be given consideration and by 15th October 2025. The file must include, a cover letter, a curriculum vitae and supporting letters.