
Postdoctoral Position Offer

Profile: Analytical Chemistry – Mass Spectrometry – Exposome and Emerging Contaminants
Location: LABERCA, UMR 1329 INRAE/Oniris VetAgroBioNantes (France)
Expected Start Date: Fall 2025
Duration: 12 months, with possible 12-month extension
Salary: €4200 gross/month

Context:

LABERCA (Laboratory for the Study of Residues and Contaminants in Food) is offering a postdoctoral contract for a minimum of 1 year (renewable once), in the field of analytical chemistry applied to the characterization of organic contaminants. The position is part of an interdisciplinary framework combining environmental, food, and health-related aspects (One Health approach).

The research will contribute to two collaborative projects:

- ICEBERG (Horizon Europe project), focused on characterizing the chemical exposome and its impacts across the environment-food-health continuum.
- PLAPOTEMIX (French ANR project), dedicated to studying microplastics as potential vectors of complex mixtures of organic chemical contaminants.

Main Missions:

- Develop and apply targeted and non-targeted analytical methods (LC/GC-MS/MS/HRMS) for detecting and characterizing organic contaminants in various matrices (snow, sediments, food, microplastics, biological matrices).
- Process HRMS data, annotate suspect signals, and evaluate exposure profiles.
- Participate in the chemical exposome analysis within an interdisciplinary framework.
- Contribute to scientific reporting, manuscript writing, and dissemination of project results.

Candidate Profile:

- PhD in analytical chemistry.
- Strong expertise in mass spectrometry (especially HRMS) and both targeted and non-targeted approaches.
- Experience with complex data processing (software such as Compound Discoverer, MZmine, Skyline, etc.) is a plus.
- Strong interest in exposome research, chemical safety, and interdisciplinary science.
- Team-oriented, autonomous, and scientifically rigorous.

Working Environment:

The postdoctoral researcher will join a dynamic team within a recently renovated and fully equipped laboratory, with over 25 mass spectrometers of various technologies (Exactive, QTOF, IMS, GC-MS/MS, LC-MS/MS, etc.). LABERCA provides a stimulating research environment at the interface between academic research and public expertise.

Application:

Send your CV, cover letter, and if possible, two letters of recommendation (combined into a single PDF file) to: gaud.dervilly@inrae.fr, before June 15, 2025