


The Anses is recruiting a Post-doctoral Researcher in mass spectrometry and metabolomic analysis (M/W)

Position based in Fougères (35), France
- 24-months fixed-term contract -

French Agency for Food, Environmental and Occupational Health & Safety

ANSES provides the scientific benchmarks needed to protect us from health risks related to food, the environment and the workplace, or from risks affecting animals and plants. It studies, assesses and monitors chemical, microbiological and physical risks, thereby helping the public authorities take the necessary measures, including in the event of a health crisis. A national agency working in the public interest, ANSES comes under the responsibility of the French Ministries of Health, the Environment, Agriculture, Labour and Consumer Affairs. Faced with new threats related to climate and technological changes and our societal choices, it works daily to mobilise science to make the world safer and healthier for all.

 **1400**
employees

 **16**
sites in France

 **9**
laboratories

More information on [Our web page recrutement](#)

Your missions

You will participate in a research project within the unit for analysis of residues and contaminants (ARC), in collaboration with different laboratory units. This two years project aims to search new chemical and/or biological markers to reveal an illegal use of nitrofurazone in food producing animals. Moreover, the project aims to study the interactions between nitrofurane metabolites and the proteins of the organism. Therefore, your mission is to conduct experimental studies on nitrofurazone metabolism via developing analytical approaches in metabolomics and proteomics by using high resolution mass spectrometry to identify one or several markers of nitrofurazone abuse.

Your team

The laboratory of Fougères works on the control of residues of veterinary drugs, on the antimicrobial efficacy of antibiotics & disinfectants, and on the development of resistance to these products as well as on the toxicity of their residues and other contaminants. It participates, in its field of expertise, in the fulfillment of the agency missions for the reference, research, monitoring, epidemiology and scientific & technical expertise.

Within the laboratory, the unit ARC in charge of Residues and Contaminants Analysis holds skills in the field of physico-chemical analysis of organic compounds applied to chemical safety of foods and to characterization of exposure related to the use of these chemicals. It carries out activities related to its Reference mandates for the control of residues of veterinary drugs designated as the National Reference Laboratory for veterinary drugs, and the EU Reference Laboratory for Veterinary Medicinal Product Residues and Pharmacologically Active Dye Residues in Food. Its main areas of concern are: - the development and validation of analytical methods to control and monitor residues of veterinary medicine in food producing animals, - ensure the proper transfer of developed analytical methods to national reference laboratories, - conducting analyses for the control plan and monitoring authorities and organizing proficiency tests for inter-laboratories studies.

Date of taking office :

As soon as possible

Remuneration :

According to the experience and the level of training by reference to the indexed grids of the health agencies or according to particular statute if civil servant.

Employment category :

Contractual agent category 2

The research activities focus on veterinary medicines and biocides substances to examine their occurrence, origin, fate in organisms, and transformation in food. The unit is equipped with state-of-the-art analytical instruments, including liquid chromatography systems coupled with mass spectrometry (LC-MS/MS, LC-Q/Orbitrap, LC-Q/ToF) to enable the development of both targeted and non-targeted analyses.

You will join a team composed of 8 scientists, 5 technicians, and non-permanent staff members (post-doctoral researchers, PhD students, contractual staff, and apprentices).

Your work

Under the head unit supervision, you will be in charge of the following:

- Conduct literature reviews.
- Perform in vitro and in vivo metabolism studies in the laboratory.
- Prepare samples for analysis using mass spectrometry techniques
- Develop analytical methods using LC-HRMS for identify new chemical and biological markers.
- Data processing using dedicated software for univariate and multivariate statistics.
- Produce reports related to the project.
- Publish research results through scientific articles and oral presentations.
- Work according to NF EN ISO 17025 international standard.
- Ensure maintenance and the proper functioning of the equipment
- Ensure the appropriate application of hygiene and safety regulations.

Your profile

Education and experience required:

- Minimum BAC + 3
- PhD in analytical chemistry and/or biochemistry
- Experience in handling scientific project in metabolomics focusing on non-target analysis using mass spectrometry

Skills :

- Good experience with HRMS analytical instrument.
- Knowledge in the use of analytical and experimental equipment in biology.
- Experience in omics softwares for data analysis.
- Familiar with TraceFinder software and Compound Discoverer.
- English is mandatory (both speaking and writing).
- Able to organize research project in full autonomy, defining action plans and meet deadline.
- Good communication and writing skills.

The Anses recruits, supports and promotes talent in all its diversity to serve public health.

Join us!

Working with us means :

Contribute on a daily basis to our collective and our commitments.

And can benefit from:

- A dynamic skills development policy
- 10 days of telework per month (subject to conditions)
- Various benefits (company restaurant/tickets, RTT, activities offered through the staff association)

Practical info :

The position is based in Fougères (35300)

To apply :

- Dominique Hurtaud-Pessel (dominique.pessel@anses.fr) / Khaled EL HAWARI (Khaled.elhawari@anses.fr)
- Send as soon as possible indicating the reference to 21/03/2025 recrutement@anses.fr: motivation letter + CV including contact details of two references + short statement from a former supervisor

www.anses.fr   