

# Post-doctoral fellowship Project leader in Agri-Food Safety

## Anses in a few figures

- 1400 staff
- 800 external experts
- 141 M€ annual budget
- 14,000 scientific opinions since 1999
- 66 FR NRL mandates
- 12 EU-RL mandates
- 8 m€/y for research programmes

## About Anses <http://www.anses.fr/en>

The National Agency for Food, Environmental and Occupational Health and Safety (ANSES) is a public administrative establishment placed under the supervision of the five ministries responsible for agriculture, consumption, the environment, health and work. It intervenes in the fields of occupational health, the environment, food, animal health and well-being, plant health and with a priority objective to contribute to ensuring the safety of workers and consumers. To draw up public health recommendations, ANSES uses independent, multidisciplinary, collective and contradictory scientific expertise. It relies on a network of nine reference and research laboratories on 18 geographical sites. They have missions of expertise, epidemiological surveillance, alert and scientific and technical advice. They thus play an essential role in the qualification of hazards by collecting data from networks of approved field laboratories disseminated across the country.

## About Anses-Lab of Fougeres

The laboratory of Fougeres works on the control of residues of veterinary drugs (VD), 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.

The unit ARC in charge of Residues and Contaminants Analysis (12 permanent staff) 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 VD designated since 1989 as the National Reference Laboratory, and since 1993 as the EU Reference Laboratory for residues of VD and pharmacologically active dyes. Its main areas of concern are : - the development of analytical methods based on mass spectrometry coupled with LC for the analysis of organic contaminants in food and in other biological and environmental matrices, - the development of new analytical strategies based on HR-MS for the search for targeted or non-targeted contaminants in food or endogenous substances in biological matrices.

## Profile

Academic  
PhD with experience in HRMS  
Skills and motivation for metabolomics data processing  
Knowledge in metabolomics

## Skills

English mandatory, French appreciated  
Good communication and writing skills  
Autonomy, organization  
Motivation to work within a multidisciplinary environment (chemists, data analysts, biologists)

## Information

CDD Cat2 (Research Engineer) / post-doctoral fellow  
24-month contract, full-time position  
Wages range (gross salary): from 2400 € / month  
Place of work: Fougeres (35)  
Starting from: June 1<sup>st</sup>, 2022

## The mission

Would you like to use your scientific background and project leadership skills and make a difference in the much needed food system transitions? We at ANSES EU-RL Fougeres laboratory have a vacancy for a 24-month post-doctoral project leader in food safety. The project called "Fuzzy" concerns the search for new metabolite markers of the nitrofurazone an active drug potentially used in illegal therapeutic treatments in aquaculture. Nitrofurazone is an antibacterial substance banned in the European Union. The project will focus on search of new unequivocal discriminating markers related to the use of nitrofurazone and disrelated to the presence of the semicarbazide metabolite substance, its current but questioned molecular marker.

## Key Responsibilities

The person recruited will be in charge of the following:

- Pharmacokinetics study of bound and unbound NF and SEM in the trout *Oncorhynchus mykiss* and/or in the *Penaeus Monodon* type shrimp,
- Search for new metabolites of NF using HRMS-based analytical approaches,
- Non-targeted analysis for effect markers (metabolomics).

Deliverables:

- Methods for screening and confirmation of NF or other new marker in different biological matrices.
- Comparative concentration data of SEM and NF or other new marker in two relevant aquaculture species.
- Pharmacokinetic and tissue depletion data on nitrofurazone and relevant new markers

## How to apply?

The application should contain the following attachments:

- a motivation letter
- a full CV (max. two pages) including contact details of two references,
- copies of relevant diplomas or university certificates
- short statement from a former supervisor
- contact information for at least two relevant references

## Contacts

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## More information

[www.anses.fr](http://www.anses.fr)  
  
<http://eurl-veterinaryresidues.anses.fr/en>