



ANR-11-INBS-0010



BORDEAUX  
METABOLOME

# Plant metabolomics scientist

## About MetaboHUB

**MetaboHUB (MTH)** is the national French metabolomics and fluxomics infrastructure. Launched in 2013, MTH is a leading international infrastructure serving more than 700 scientists worldwide. MetaboHUB gathers **5 regional facilities** including more than **80 permanent staffs**, **15 NMRs**, **43 MS systems**, **robotic and computational platforms**. MTH aims at pushing forward the field to develop metabolomics and fluxomics from single cell to population. **Your contribution will serve a broad range of researchers** in the fields of biotechnologies, human health and nutrition and plant science. **Joining MTH, you will be involved in cutting edge research within a highly skilled and motivated consortium.**

## About MTH-Bordeaux

**Bordeaux Metabolome** (26 permanent staffs) is a **biochemical facility** recognised as a national and international leader in **plant metabolism studies** (metabolome, lipidome, metabolic fluxes and enzyme activities).

**Bordeaux Metabolome** main activities include:

- (HR)MS and NMR metabolomics (from extractions to chemometrics)
- high-throughput metabolic phenotyping of metabolites and enzyme activities
- targeted analyses of specialised metabolites, most particularly phenolics.
- lipidomics.

## The mission

In the framework of the Workpackage 1 of MetaboHUB2.0 (*Scaling-up: towards high-throughput comprehensive metabolomics for large cohorts*), the overarching goal is to **develop and implement** all the appropriate **methods and protocols** ensuring **high-density, high-throughput phenotyping in large plant cohort studies**. The scientist will specifically focus on high-throughput **(HR)MS and robotised methods**. Hence, the recruited person will optimise standardised **analytical and biostatistical workflows** in order to deliver **untargeted metabolomics service for large plant cohort studies** in close collaboration with on-going developments in other WPs.

## Key Responsibilities

The person recruited will be responsible for:

- The selection of **plant target compounds** and implementation for large cohort analysis in plant sciences
- The development and implementation of **advanced HRMS and robotised protocols** in plant metabolomics (e.g. high-throughput sample preparation, GC/LC separation, DDA/DIA MS acquisition)
- The implementation of **statistical integration methods** for **multiplatform data in plant sciences** (e.g. multiplexing for annotation).



### Profile

Academic

PhD with experience in metabolomics  
Hands-on mass spectrometry experience  
Knowledge in plant metabolism  
Knowledge in biomolecule analyses and bioinformatics would be an advantage



### Skills

English mandatory  
Good communication and writing skills  
Autonomy, organisation  
Motivation to work within a multidisciplinary environment  
(biologists, (bio)chemists, bioinformaticians)



### Informations

Research Engineer / Post-doctoral associate  
Full-time fixed-termed contract (30 months)  
Starting from March 1<sup>st</sup> 2022  
Salary range (gross salary): 2400 euros/month\*  
Place of work: Villenave d'Ornon, SW France  
UMR 1332 BFP, [META](#) team

\* Salary range depends on the applicant's experience, and includes holiday allowance and social insurance.

## 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

## Contacts

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## More information

[www.metabohub.fr](http://www.metabohub.fr)

<https://metabolome.cgfb.u-bordeaux.fr/en>

Bordeaux Metabolome embraces diversity and equality and is committed to building a team with a variety of backgrounds, skills, approaches and views.

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