Post Reference: P.1.B

Expert in MS metabolomics

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 6 **regional facilities** including more than **80 permanent staffs, 16 NMRs, 68 MS, robotic and computational platforms**. MTH aims at pushing forward the field to develop metabolomics, lipidomics and fluxomics from single cell to population. **Your contribution will serve a broad range of researchers** in the fields of biotechnologies, Human health, nutrition and plant science. **Joining MTH, you will be involved in cutting edge research within a highly skilled and motivated consortium.**

About MTH-PFEM https://eng-pfem.isc.inrae.fr/

The PFEM (**metabolism exploration platform**) is a metabolomic platform, recognized as a national and international leader in metabolomics applied to **nutrition and health**. Part of the Human Nutrition Research Unit (UMR1019 INRAE UCA), PFEM principal research interest concerns the development of MS-based analytical methods and bioinformatics tools for a better characterization of metabolic deviations associated with development of chronic metabolic diseases and the study of nutrition and health relationships:

- metabolic profiling using multiplatform approaches in biofluids and tissues.
- development of analytical strategies for biomarker identification using ultra high-resolution MS and bioinformatics tools.
- development of models and tools to increase knowledge extraction from high throughput data

The mission

In the framework of the Workpackage 1 of MetaboHUB3.0, aiming at providing deep phenotyping methods for large cohorts, **the objective of this position is to design, perform and exploit an interlaboratory ring test**, in order to organize and assess the data acquisition implemented in each participating laboratory; the data processing and annotation workflows necessary for data fusion; to propose indicators of quality, sensitivity, and precision in order to compare them and enable the scaling up:

- Harmonisation of the optimized large-scale method among laboratories
- Design and implementation of the ring tests
- Sample preparation and management
- Data acquisition on one of the UPLC-HRMS instrument
- Standardization of data processing and annotation to enable multi-platform data fusion
- Statistical analyses and reporting of results

Key Responsabilities

The person recruited will be responsible for
(i) Design, implementation and exploitation of a ring test;
(ii) Coordination of the project among the MTH-partners;
(iii) Training and supporting users in using this method, as well the writing user guides.

Profile

Academic
- PhD in analytical chemistry with experience in metabolomics
- Knowledge in biomolecule analyses
- Experience in project management

Skills

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

Informations

- CDD – Research Engineer
- 12 months contract
- Salary range (gross salary): 2815-3190 euros/month depending on experience
- Place of work: Clermont-Ferrand, France
- Trips: Paris/Toulouse
- Starting from: 2027 January 1st

How to apply ?

The application should contain the following attachments:
- a motivation letter reasoning your interest for a specific research project described on our webpage (max. one page)
- a full CV (max. two pages) including contact details of two references,
- Copies of relevant diplomas or university certificates

Contacts

Dr Estelle Pujos-Guillot &
Dr Stéphanie Durand

contact-pfem@inrae.fr

More information

www.metabohub.fr