

Study Engineer

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, 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-Metatoul

You will be based at the INRAE TOXALIM laboratory at Toulouse (www6.toulouse.inrae.fr/toxalim), and more specifically at the Metatoul-AXIOM analytical platform (https://mth-metatoul.com), which is developing tools and methods to study the exposure and effects of potentially toxic compounds on human or animal health.

The mission

The lack of commercial compounds limits the confirmation of structural identity by mass spectrometry. To overcome this problem, you will generate metabolites from in vitro biological models, and then analyze them by high-resolution tandem mass spectrometry (MS/MS), coupled with C18 liquid chromatography or HILIC. You will extract metabolite spectral and chromatographic data and store them in the national Peakforest database. These data will be used in parallel with this project to confirm the structural identity of biomarkers of exposure or effects. This work will be conducted in the framework of the work package 4 of MetaboHUB (Metabolite identification and metabolome annotation: implementation of spectral databases).

Key Responsabilities

Metabolite production using in vitro models Acquisition and processing of LC-HRMS, MS/MS and CCS data (C18, HILIC, Q-ToF, TIMS-ToF, Orbitrap)

Recording of spectral and chromatographic data in databases



 Master2 degree graduated in analytical chemistry



Skills

 sample preparation • liquid chromatography analyses

• mass spectrometry analyses



Informations

CDD

Study Engineer

• 6 months contract, extendable

• Place of work: Toulouse

Starting from: October 1st 2023

How to apply ?

cea

INRAe

The application should contain the following attachments: • a motivation letter (max. two pages in french or english) • a full CV (max. two pages in french or english)

cnrs

Contact

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More informations

www.metabohub.fr www.mth-metatoul.com

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