

# Analytical Chemist

## 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 nodes** including more than **150 permanent staffs (79 FTP), 16 NMRs, 71 MS, robotic and computational platforms**. MTH aims at pushing forward the field to develop metabolomics, lipidomics and fluxomics from single cell to populations. **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.**

## The mission

With the objective of extending the application of fluxomics to complex biological systems, this project aims to improve workflows to increase the coverage of polar and apolar metabolomes during *in vivo* isotope tracing studies in complex biological systems (e.g., mouse, fish). The recruited person will have to take in charge the optimisation of sample preparation (biofluids, tissues, etc...), performing isotope profiling analyses using GC & LC-MS/MS, and processing data. Another prospect will be the development of click chemistry, especially for labelled lipidome investigations.

## About MTH-MetaToul

**MetaToul**, launched in 2007, is a multi-institutional platform uniting INRAE, CNRS, INSERM, INSA, the University of Toulouse, and Toulouse Hospitals. CNOC- and IBISA-labeled, and recognized by INRAE as a national strategic platform, MetaToul brings together about 50 staff members with expertise in biochemistry, chemistry, bioinformatics, biostatistics, automation, mass spectrometry, NMR, and chromatography. These complementary skills support the study of metabolism through metabolomic, lipidomic, and fluxomic workflows.

## Key Responsibilities

In close collaboration with **Lipidomic and FluxoVivo MetaToul Teams**, the recruited person will develop and optimize methods and protocols (specific and dual extractions) to extract metabolites from different types of samples and analyze them using various analytical systems (GC & LC coupled with low and high-resolution mass spectrometers). Processing isotope labelled data will require special software optimization.



### Profile

- Academic
- Master chemistry
- Compulsory skills
- Attraction for analytical chemistry
- Mass Spectrometry (LC/MS & GC/MS)



### Skills

Skills in French language are not a prerequisite.  
English is mandatory



### Information

CDD Engineer  
12 months contract, potentially renewable  
Salary according to experience.  
Place of work: Toulouse, France  
Starting from: 2026 January 1st

## How to apply ?

The application should contain the following attachments (French or English) :

- 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,
- Contact information for at least two relevant references

## Contacts

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## More information

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

[mth-metatoul.com](http://mth-metatoul.com)