

Bordeaux, September, 11th 2014



MetaboHUB
Infrastructure Nationale
en **Métabolomique**

MetaboHUB JOB ANNOUCEMENT

Job Title : Subcellular fluxomics in plant cells

Post Reference : BDX-IR-4-WP2c

Grade : Research engineer

Starting from : January 1st 2015

Duration : 18 month contract, full-time position

Place of work: Working place will be located in the INRA Bordeaux Center within Bordeaux Metabolome Facility ([www.http://www.cgfb.u-bordeaux2.fr/en/metabolome](http://www.cgfb.u-bordeaux2.fr/en/metabolome)) and UMR1332 Fruit Biology and Pathology (<http://www6.bordeaux-aquitaine.inra.fr/bfp>)

MetaboHUB background :

The French MetaboHUB project aims at creating a national infrastructure of metabolomics that will place France among the European leaders for advanced research services in metabolomics and fluxomics. This infrastructure will provide tools and services to academic research teams and industrial partners in the fields of nutrition and health, agriculture, environment and biotechnologies.

MetaboHUB will address major life science trends and challenges listed in the National Strategy for Research and Innovation priorities. MetaboHUB outputs will provide full service.

For more information see the web site: <http://www.metabohub.fr>

Main purpose of the job/ Specific tasks of the position :

The laboratory has already developed non-aqueous fractionation to determine the subcellular concentrations of metabolites in plant cell tissues. The objective of the engineer is to combine this fractionation method with ¹³C labelling experiments to quantify subcellular fluxes in primary metabolism of plant tissues.



Key responsibilities :

The engineer will be responsible for:

- Labeling experiments of plant tissues with ^{13}C -labelled substrates, sample extractions and isotopomers analyses using LC-MS.
- Modeling the metabolic network to quantify fluxes from labeling data.

Qualifications and minimum working experiences :

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

Academic background:

PhD in metabolic biochemistry, plant biology, analytical (bio)chemistry.

Desired skills:

Knowledge in metabolism and physiology, ideally in the field of plants

Experience in sample preparation techniques and chromatography.

Practical experience of mass spectrometry

Knowledge in metabolomics and in metabolic flux analysis will be appreciated.

Excellent organization and project management skills; ability to manage competing priorities, to take initiatives and to work autonomously in a team.

Salary range :

Minimum starting gross salary 2310 Euros/month (net 1875 euros/month)

Person to contact for further information:

Dr Martine Dieuaide-Noubhani

UMR 1332 Biologie du Fruit et Pathologie

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Tel: +33 (0)5 57 12 26 91

Person to contact for information concerning the application process:

Marie-Lou Lombard ; Email: lombard@bordeaux.inra.fr. Tel: +33 (0)5 57 12 26 68

Please send your application including:

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. PhD student can apply if their thesis defense is programmed before November 30th. Join a copy of the authorization to defend or proof of submission of thesis
- Short statement from a former supervisor/tutor
- Contact information for at least two relevant references

Deadline for application: October 30th 2014

Profile prepared by M Dieuaide-Noubhani, S Colombié and B Beauvoit

