

## Research Engineer in Metabolomics & Fluxomics of Cancer

### Toulouse, France

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A Research Engineer position in “Cancer Metabolomics & Fluxomics” is open at MetaToul-MetaboHUB, Toulouse, France, in the framework of the Cancéropôle Grand Sud-Ouest (CGSO).

#### Location:

MetaToul-MetaboHUB ([www.metatoul.fr](http://www.metatoul.fr)), Laboratoire d’Ingénierie des Systèmes Biologiques et des Procédés, Toulouse, France.

#### Project Background and description

The CGSO ([www.7canceropoles.org](http://www.7canceropoles.org)) is a non-profit organization supported by the French Cancer Institute (INCa). One of its missions is to foster the emergence and sharing of new technologies in the South-West of France, to support innovative research projects in the Cancer field. It has recently launched a new program aiming at developing metabolomic platforms for studies of cancer metabolism that should benefit to researchers and laboratories belonging to CGSO. In this framework, the recruited engineer will be in charge of the design, application and follow-up of methods in metabolomics and fluxomics applied to cancer systems. He/she will be more specifically in charge of the development and application of isotopic profiling and isotope-based metabolic flux analysis to cancer cells, based on mass spectrometry and/or NMR. (S)he will make these developments in tight interaction with the researchers belonging to the Canceropôle Grand Sud-Ouest.

#### Place of work

The recruited engineer will carry out its activities at MetaToul-MetaboHUB ([www.metatoul.fr](http://www.metatoul.fr)), which is the Metabolomics & Fluxomics Platform of Toulouse, under the supervision of Prof. JC Portais. MetaToul is a center of expertise in metabolomics & fluxomics that provides the scientific community with the concepts, tools and methods related to the analysis of metabolism at the level of a biological system (cell, tissue, whole organism). In this framework (s)he will coordinate the activities of MetaToul related to the investigation of cancer metabolism, and contribute to the operation and quality management of the Facilities. MetaToul includes a team of biochemists, biologists, analytical chemists, bio informaticians, mathematicians, as well as state-of-the-art instrumentation including NMR (500, 600 and 800 MHz spectrometers equipped with cryoprobes), mass spectrometry (LTQ-Orbitrap, Q-TRAP 4000, QTOF-MaXis, etc), and specific devices for fluxomics (e.g. fluxomics robot).

#### Candidate Profile

Candidates should have a background in biochemistry, chemistry, or related areas with personal motivation for metabolism and expertise in either NMR or mass spectrometry, or both. Candidates with expertise in the application of these techniques to metabolomics, isotope labelling studies and flux analysis are particularly encouraged to apply. Communication skills in spoken and written English will be a *plus*. French speaking is not a requirement. Because (s)he will coordinate the activity of the platform in Cancer, (s)he needs to be able to work in a team as well as independently at the interface with researchers, to plan and organize collaborative projects and to integrate into a multidisciplinary environment.

This position is open for 18 months (starting from March 2015).

Salary: The successful candidate will be appointed on the salary scale, at a point commensurate with qualifications and experience.

#### Application procedure

Please send a CV and accompanying documentation (certificates, publications) to

[jean-charles.portais@insa-toulouse.fr](mailto:jean-charles.portais@insa-toulouse.fr)

Closing date: February 20th, 2015