



## GIGA – Imaging Platform

A full-time logistician in image quantification is strongly needed to :

Collaborate closely with biomedical researchers, in collaboration with the staff of the GIGA Cell Imaging platform, for experimental planning: optimize their sample preparation procedures and image acquisition protocols in order to minimize acquisition bias and artefacts and ease reproducible morphometric quantification;

Maximize the use of existing image quantification softwares (including FIJI, Imaris, CYTOMINE, Image J) by coordinating software installation, configuration, and maintenance;

Maximize the use of high-performance computing and mass storage equipment by developing software communication and user interfaces between imaging instruments (incl. whole-slide scanner, confocal microscopes, high content screening imaging system, and epifluorescence microscopes managed by the Cell Imaging GIGA platform), computing infrastructure (grid computing and mass storage), and end-users (biomedical researchers and computer scientists developing algorithms);

Implement image format conversion tools to ease image storage and sharing;

Implement additional quantification software modules to answer specific biomedical questions;

Implement research results (new algorithms) into usable and efficient software modules;

Write protocols and documentation for end-users to describe quantification workflows, pipelines, platforms.

Organize training sessions on basic image analysis principles and softwares.  
Organize workshops on advanced topics to foster sharing of knowledge between biomedical experts and computer scientists.

Offer daily imaging data analysis consultation and services for users of the Cell imaging GIGA platform.

Act as an interface between biomedical researchers and computer scientist researchers.

Contribute to the submission of national/international research projects that involve biomedical image quantification.

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The logistician should:

Have a Master or PhD degree in Computer Engineering, Computer Science, Bioinformatics, or Applied Physics/Mathematics.

Have experience in image analysis/computer vision and/or machine learning/pattern recognition ;

Have experience in software development and/or data management;

Have experience or strong interest in biomedical imaging and/or data management;

Be creative, pragmatic, autonomous, and user and result oriented;

Have excellent interpersonal and collaborative skills to collaborate both with biomedical researchers and computer scientist researchers;  
English is mandatory, French is an asset.

The logistician will act as an interface between all groups. The logistician will have direct access and contact to the GIGA Cell Imaging Platform (Dr. Sandra Ormenese), the GIGA Immunohistochemistry platform (Dr. Chantal Humblet).

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The laboratory belongs to the GIGA Research Institute (Grappe Interdisciplinaire de Génoprotéomique Appliquée, <http://www.giga.ulg.ac.be/>, about 600 researchers). The GIGA is a unique research center offering up-to-date and centralized technological platforms (Cell imaging and immunohistochemistry core facilities, animal facilities (Mouse and Zebrafish), transgenics, genomics and proteomics platforms, see [http://www.giga.ulg.ac.be/cms/c\\_5594/fr/plateformes](http://www.giga.ulg.ac.be/cms/c_5594/fr/plateformes)

For further information regarding the equipment available in the GIGA-Imaging platform, please check [http://www.giga.ulg.ac.be/cms/c\\_18283/fr/imaging-accueil-services](http://www.giga.ulg.ac.be/cms/c_18283/fr/imaging-accueil-services)

Some key figures of the GIGA Cell Imaging and Flow Cytometry Platform in 2015:

- 1616 confocal analyses
- 19 confocal time-lapse acquisitions
- 551 epifluorescence analyses
- 1946 flow cytometry analyses
- 491 cell sorting
- 8 high content screening analyses
- 42 multiplex immunoassays
- 19 laser microdissections
- 255 users
- 73 research groups

The GIGA/ULg computing infrastructure is composed of a grid computing environment (~500 computing nodes/3500 cores) and a mass storage facility (~1000TB).

Successful candidate will be offered a full time fixed-term contract (one year, with possibility of extension).

If this opportunity is matching your profile and you are looking for a new challenge, please do not hesitate to forward your CV with a cover note detailing your experience to: Sandra Lopez and Sandrina Evrard, [rh.giga@ulg.ac.be](mailto:rh.giga@ulg.ac.be) (deadline : November 30th 2016), with the subject heading « GIGA Imaging Platform / Bioinformatician »