Bio-Image Analyst (M/F)

The hosting structure

The Curie Institute Research Center
The "Institut Curie" is a major player in the research and fight against cancer. It consists of a hospital and a Research Center of more than 1000 employees with a strong international representativeness.
The objective of the Curie Institute Research Center is to develop basic research and to use the knowledge produced to improve the diagnosis, prognosis, and therapeutics of cancers as part of the continuum between basic research and innovation serving the patient.

Job description

Laboratory
The Genetics and Development Biology Unit (https://institut-curie.org/unit/umr3215-u934) at the Institut Curie is a multidisciplinary department which, among other aims, studies tissue dynamics from cell to organ scale during development. Research teams use optical fluorescence microscopy to visualize in real time different biological processes in various organoid and animal models (Drosophila, zebrafish and mouse). Through the support of a Labex program (https://labex-deep.institut-curie.org/), we are looking for an enthusiastic and service-oriented Bio-Image Analyst.

The candidate will work within the Cell and Tissue Imaging facility (https://institut-curie.org/platform/curiecoretech-cell-and-tissue-imaging-pict) and will collaborate with users from the Paris campus and beyond, helping them developing solutions for bioimage analysis. The projects will range from designing image analysis workflows, developing custom scripts/macros/plugins, to full collaborations where the Analyst handles the project from start to end and delivers analyzed data. The candidate will also advise and teach users on their bioimage analysis strategies.

Missions
Description of the activities

- **Implementing tools for image analysis and processing**.
- Building and deploying custom analysis tools for projects requiring specific developments.
- Developing image analysis softwares whose scope exceed users' projects.
- Work with scientists for writing / implementing algorithms to solve image processing problems from **multidimensional fluorescence microscopy datasets**.
- Improve existing tools (computing speed, user interface, creating workflow).
- Validation of developed tools.
- Train scientists in the use of developed tools and make tutorials.

Candidate Profile

Training and experience required
The candidate should hold an engineering or master degree in (bio)informatics, (bio)physics, applied mathematics or any other related domain, followed by at least 3 years of professional experience in bioimage analysis in research or support to research activity, or holds a PhD in bioimage analysis, bioinformatics, (bio)physics, applied mathematics or any other related domain.

Skills required

- *Applied mathematics or related areas with profound knowledge in Image Analysis.*
- ***Know how to use and optimize networks in deep-learning**.*
- *Experience with Image processing, data visualization and software development (e.g. Icy, Fiji/ImageJ, Napari).*
- *Programming skills (e.g. Python, MATLAB, Java, C/C++).*
- *Good knowledge of segmentation algorithms, object tracking, pattern recognition.*
- *An experience with biology and imaging is advantageous.*
- *The will and taste to collaborate with others on their projects within a microscopy core facility.*
- *Ability to work in teams while managing multiple projects simultaneously with a high degree of technical autonomy.*
- *Able to communicate in English.*

All our opportunities are open to people with disabilities

Contract information

Type of contract: *Fixed-term contract*
Starting date: *as soon as possible*
Duration: *18 months, renewable*
Working time: *full time*
Remuneration: according to the current grids
Benefits: Collective catering, reimbursement of transportation fees up to 70%, supplementary health insurance
Location of the position: *Paris*
Reference: *not to be completed*

Contact

Please send your CV, letter of motivation and 2 references, to Olivier Renaud (olivier.renaud@curie.fr)

Publication date: *not to be completed*
Deadline for application: applications will be studied upon receipt

Institut Curie is an inclusive, equal opportunity employer and is dedicated to the highest standards of research integrity.