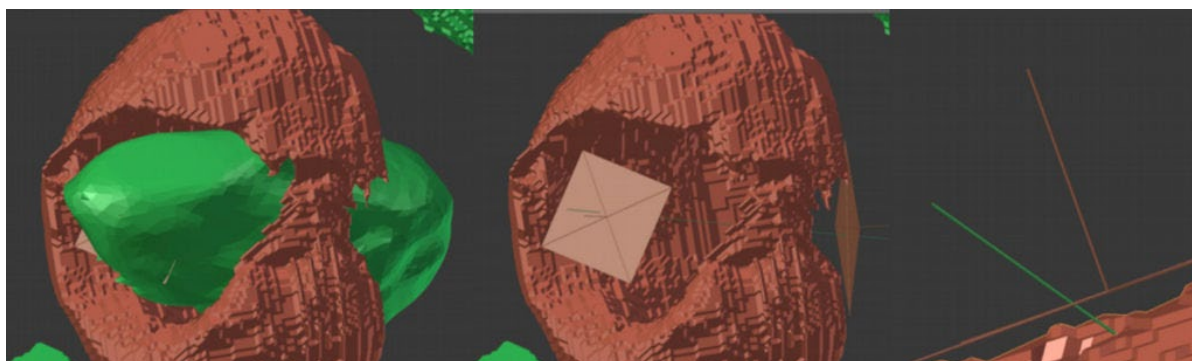


# Research engineer in Bioimage Analysis. Institut Pasteur, Image Analysis Hub.



Permanent Pasteur position in a core facility, deadline to apply: 15<sup>th</sup> May 2024

The Image Analysis Hub (IAH, <https://research.pasteur.fr/en/team/image-analysis-hub/>) of the Institut Pasteur **is looking to recruit a research engineer in biological image analysis**, contribute to the development of image processing pipelines and computational infrastructure for (cryo-) electron microscopy (EM) and photonic imaging.



## About the Image Analysis Hub.

The Image Analysis Hub (IAH) is an open access, equal access core facility committed to offering support in image analysis for the Institut Pasteur campus. The engineers of the IAH collaborate with users of the campus and beyond, helping them on their projects with bioimage analysis. The projects range from the development of a custom analysis pipeline, of a special analysis tool, to a full collaboration where you will perform the analysis from start to end and deliver scientific results. We connect to the imaging cores of the campus and work with them on innovative methods for Biology.

## Mission.

The IAH wishes to expand the scope of its activities, and support research projects that are based on electron microscopy images. The mission associated to this position consists in:

1/ The development of image pre-processing pipelines and computational infrastructure to harness data generated in cryo electron microscopy, performing e.g. CTF correction, denoising, filtering, multi-modal correlation and tomography reconstruction. For this, the engineer will work in close collaboration with senior engineers in the IAH and beyond.

2/ Offering image analysis services to the campus, for imaging modalities involving EM image data and fluorescence microscopy image data.

The engineer will have the possibility to travel to acquire specific expertise, depending on the mission progress and requirements.

## Profile.

The suitable candidate:

- holds an engineering or master's 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 bioinformatics, (bio)physics, applied mathematics or any other related domain.

#### Required skills:

- Strong experience with image processing, data visualization and scientific software development.
- Good knowledge of relevant Image Analysis techniques.
- Good programming skills (most relevant are Python, Java, C/C++).
- The will and taste to collaborate with others on their projects.
- Team player with good communication skills and a sense of accountability.

#### Desired skills:

- Experience with biological imaging is a plus, in particular with EM.
- Experience in cryo-EM and cryo tomography data analysis is a plus as well.
- Experience with workflow management tools.

The working language in the IAH is English.

### About the Institut Pasteur.

The Institut Pasteur provides an exciting environment for engineers to pursue scientific endeavors, located in the vibrant city of Paris. At Pasteur, you will find a thriving community of research engineers who benefit from a well-defined and esteemed career trajectory, along with exceptional working conditions. Additionally, the campus grants access to state-of-the-art high-performance computing servers, advanced instruments, and opportunities for collaboration with pioneering life scientists, presenting innovative challenges.

### Information on the position.

The Institut Pasteur and the IAH highly value diversity and inclusion, and we encourage individuals from all segments of the community to apply. Furthermore, we are open to discussing various types of flexible working arrangements.

#### Working time.

Full time.

#### Contract.

Permanent position, research engineer.

#### Location.

Institut Pasteur, 28, rue du Docteur Roux, 75-15 Paris, France.

#### Starting date.

September 2024.

### Applying.

Please prepare a CV, a cover letter with references, and a link to a public code repository, and apply using the official application website:

[https://institutpasteur-recrute.talent-soft.com/job/emploi-ingenieur-de-recherche-en-analyse-d-images-pour-la-cryo-microscopie-electronique-h-f\\_11483.aspx?LCID=2057](https://institutpasteur-recrute.talent-soft.com/job/emploi-ingenieur-de-recherche-en-analyse-d-images-pour-la-cryo-microscopie-electronique-h-f_11483.aspx?LCID=2057)

Do not hesitate to contact Jean-Yves TINEVEZ (tinevez at [pasteur.fr](mailto:tinevez@pasteur.fr)) and Marvin ALBERT (marvin.albert at [pasteur.fr](mailto:marvin.albert@pasteur.fr)) for information.

Deadline for application: 15<sup>th</sup> of May 2024