

Research assistant position in single molecule image analysis
Curie Institute – research Center
Department: Physical Chemistry of the cell

We are seeking a motivated image analysis specialist to join our team to work on image analysis of single particle data and trajectory for studying the cell nucleus.

Activity: The candidate will carry on the development of analysis pipeline of microscopy images to quantify proteins dynamics in living cells. Under the supervision of the project leader he or she will have to analyze single molecule data, put in place a pipeline for 3D image reconstruction and analysis (image registration, noise correction ...), and work in close collaboration with PhD students and other researchers of the institute.

Context: The project will be developed in the “Light-based Observation and Control of Cellular Organization” (LOCCO) team, with renowned experience in developing advanced tools for single molecule imaging and successful application in studying the dynamics and organization of the nucleus and nuclear factors. The group is a part of Physical Chemistry Unit which gathers physicists and biologist to work on interdisciplinary approaches to study various biological processes from molecular level to population level.

A description of the different research activities and skills of the group can be found here: <https://science.institut-curie.org/research/multiscale-physics-biology-chemistry/umr168-physical-chemistry/team-coppey/>

The candidate will work in close collaboration with onsite groups, national labs and international ones. He or She will have the opportunity to interact with the rich scientific environment of Curie Institute and the surrounding research centers.

The contract: We are offering a one-year work engineer contract (that can be eventually extended) at the research center of Curie Institute in Paris - France. The contract grants access to the French social security health system, and an advantageous complementary health insurance will be provided through Curie’s employee benefit plan.

Requirements: You have sufficient knowledge in image analysis, coding experience in Matlab or python, a background in physics, informatics or biophysics, and a lot of curiosity send us your application (motivation letter and a CV) to: bassam.hajj@curie.fr

