WORKING ENVIRONMENT AND CONTEXT

Notre établissement fait partie de l'Université PSL. Située au cœur de Paris, celle-ci fait dialoguer tous les domaines du savoir, de l'innovation et de la création. Classée parmi les 50 premières universités mondiales, elle forme au plus près de la recherche des chercheurs, artistes, ingénieurs, entrepreneurs ou dirigeants conscients de leur responsabilité sociale, individuelle et collective.

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.

MISSIONS

MAIN TASKS

Laboratory

The Cavalli Lab is part of the "Computational Oncology" Unit (U1331 INSERM, Mines ParisTech, Institut Curie) at Institut Curie, which consists of ~90 researchers and students. It is a very active and growing interdisciplinary team of bioinformaticians, biologists, physicians, mathematicians, statisticians, physicists, and computer scientists (U1331 Unit page).

The Cavalli Lab (located at Institut Curie St-Cloud, west of Paris), investigates tumor heterogeneity, targeting clinically relevant questions. The goal of our genomic approaches is to explore clinically relevant aspects of brain tumor biology. We pursue this goal using patient samples profiling, investigating temporal and intra-tumoral/spatial heterogeneity as well as tumor/tumor microenvironment interactions in gliomas and pediatric embryonal brain tumors. Projects in the Cavalli lab are developed within a dynamic and collaborative environment with other researchers and clinicians at Institut Curie and national/international wet lab collaborators.

The project

We seek a talented individual to tackle the complexity of tumor biology and intra-tumoral heterogeneity performing computational analysis of cutting-edge sequencing datasets. S/he will be in charge of the analysis of single-nucleus RNA/ATAC-seq and spatial transcriptomics data from brain tumor patient samples or models in close collaboration with experimentalists.

This project focuses on deciphering tumor cell plasticity, including method evaluation/development and biological interpretation of the results. In addition, s/he will drive a cross species pediatric tumor model comparison deciphering tumor cell programs. Finally, s/he will investigate the metabolome of IDH-mutant glioma tumors and perform data integration with omics layers to further decipher treatment resistance mechanisms.

Responsibilities

- Drive and develop scientific projects focused on tumor heterogeneity
- Perform end-to-end data analysis (QC, processing, visualization, interpretation…)
- Analyze single-cell and spatial transcriptomics datasets
- Decipher metabolomic patterns
- Perform high dimensional data analysis and integrative ‘omic’ data analysis

Candidate Profile

Training and Skills required

- (Recent) PhD in bioinformatics, statistics, or computer science with knowledge and interest in biology
- Track record of creativity in developing analytic strategies
- Strong foundation of knowledge in one or more of the following: genomics, cancer biology, statistics
- Experience working in a Unix environment and statistical analysis using R
- Excellent computational biology skills
- Experience with single-cell RNA-seq analysis
- Experience with machine learning based methods
- Have evidence of scientific accomplishment via peer-reviewed publications
- Understanding of cancer cell biology is an asset as well as experience of collaboration with biologists for solving concrete biological problems

Abilities

- Must be self-motivated, capable to work in autonomy
- Excellent written and verbal communication skills in English
- Capacity to communicate with oncologists and biologists
- Critical thinking
- Team spirit is essential

All our opportunities are open to people with disabilities

APPLICANT PROFILE

KNOWKEDGE AND QUALIFICATIONS EXPECTED

Type of contract: *Fixed-term contract.*

Starting date: *as soon as possible*

Duration: *24 months*

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: *Saint-Cloud*

Contact

Please send your CV, letter of motivation and contact information of three referees :

Publication date: 27/03/2026

Deadline for application: until filled

Institut Curie is an inclusive, equal opportunity employer

and is dedicated to the highest standards of research integrity.

https://euraxess.ec.europa.eu/sites/default/files/brochures/eur_21620_en-fr.pdf

DIPLÔME ET EXPÉRIENCE PROFESSIONNELLE

Bac+6 et plus

NON DISCRIMINATION, OUVERTURE ET TRANSPARENCE

Notre établissement, comme l'ensemble de l'Université PSL, s’engage à soutenir et promouvoir l’égalité, la diversité et l’inclusion au sein de ses communautés. Nous encourageons les candidatures issues de profils variés, que nous veillerons à sélectionner via un processus de recrutement ouvert et transparent.

CONTACT

bq732rproo5k@emploi.beetween.com

OTHER INFORMATION

Type de contrat / de poste : **CDD**
Durée du contrat : **2 an(s)**

Reference
bq732rproo

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