

# Bioinformatics engineer position in Genomics (M/F)

## The hosting structure

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### 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

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### Laboratory

The Genomics and Development of Childhood Cancers lab (<https://institut-curie.org/team/saulnier>), headed by Olivier Saulnier, is looking for a **motivated bioinformatics engineer**.

Our team focuses on using cutting-edge high-throughput genomic approaches and genome-wide data analyses to study the **spatio-temporal origins of pediatric brain tumors**. In addition, we investigate the **transcriptional and post-transcriptional programs of the normal development that are hijacked by cancer cells** in order to exploit these vulnerabilities as new therapeutic strategies. We are located in the heart of Paris at Institut Curie, one of the world's leading institutions in cancer research. It represents an excellent and international environment with interdisciplinary expertise and high-quality technological platforms.

### Missions

The candidate will collect and conduct analysis of long-read sequencing data to study post-transcriptional processes in pediatric cancers and normal development. He/She will also help to build single-cell atlases and to decipher the transcriptional programs driving cell differentiation.

### Key publications

1/ Hendrikse\*, Haldipur\*, Saulnier\*, et al., Failure of human rhombic lip differentiation underlies medulloblastoma formation. *Nature*. 2022

2/ Vibert\*, Saulnier\*, et al., Oncogenic chimeric transcription factors drive tumor-specific transcription, processing, and translation of silent genomic regions. *Molecular Cell*. 2022

3/ Saulnier\*, Guedri-Idjouadiene\*, et al., ERG transcription factors have a splicing regulatory function involving RBOX2 that is altered in the EWS-FLI1 oncogenic fusion. *Nucleic Acids Research* 2021

## Candidate Profile

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### Training and experience required

- Training: Applicant should hold, or be in the process of completing, a master or engineer degree in bioinformatics or related areas
- Scientific skills: should have **solid computational skills**, and a strong interest in cancer biology, genomics and/or developmental biology
- Professional experience desirable: experience with NGS/single-cell omics

### Skills required

- Language skills: very good English level and communication skills
- Ability to work independently, to communicate and to work in a team
- The candidate should be highly motivated, curious, and enthusiastic to work in a collaborative team

*All our opportunities are open to people with disabilities*

## Contract information

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**Type of contract:** Fixed-term contract

**Starting date:** As soon as possible

**Duration:** up to 3 years (renewable contract)

**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

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Please send a CV, a motivation letter and contact information of at least two references to [olivier.saulnier@curie.fr](mailto:olivier.saulnier@curie.fr)  
Applications will be reviewed as received.

Publication date: not to be completed

Deadline for application: January 31, 2023

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