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 Institut Curie Research Center

France's leading centre for cancer research and treatment, Institut Curie combines an internationally renowned research centre with a cutting-edge hospital. It offers an environment of excellence where expertise comes together around shared values: kindness, humanity, openness, sharing, efficiency, innovation, solidarity and commitment.

MISSIONS

MAIN TASKS

Context

The Physics of Cells and Cancer unit (CNRS, Institut Curie, PSL, SU) offers a highly interdisciplinary, inclusive and international working environment. Located in the heart of the Latin Quarter in Paris, a very rich academic environment, our unit hosts experimental and theoretical physicists, biologists and biochemists. We are deeply committed to diversity and are looking for talented scientists from all fields at the interface between physics and biology.

The Keil lab at Institut Curie uses an interdisciplinary approach to study transcriptional regulation, cell fate specification and morphogenesis in the model organism *C. elegans*. We are particularly interested in how developing systems achieve robustness and precision in the face of environmental variability and molecular noise.

Responsibilities

During multicellular development, a wide diversity of cell types is generated from small pools of progenitor cells. To achieve the orderly and timely generation of each cell type, progenitor cells assess cues from two main sources of information: space and time. While spatial patterning is relatively well understood, the goal of our project is to uncover how cells interpret intrinsic and extrinsic temporal cues to generate sequences of temporal identities during development.

As a model system, we use the hypodermal stem cells of the model organism *C. elegans*. The engineer will help uncover how these cells acquire their temporal identities during post-embryonic development. To do so, we will combine quantitative phenotypic analyses of temporal patterning mutants, live-cell imaging coupled with microfluidics, high-throughput single-molecule fluorescence in situ hybridization, and quantitative image analysis.

Main responsibilities:

· Maintenance of *C. elegans* strains (genetic crosses, PCR genotyping, …)

· Widefield and confocal imaging of live and fixed samples

· Fabrication of microfluidic chips

· Quantitative image analysis

· Laboratory management (ordering, databases)

APPLICANT PROFILE

KNOWKEDGE AND QUALIFICATIONS EXPECTED

Education and skills

We are looking for an interdisciplinary profile: a Master's degree (M2) in cell/developmental biology or biophysics, an engineering degree with solid knowledge of genetics, developmental biology or bioengineering, or an experimental PhD in these fields.

We are looking for highly motivated candidates with a keen interest in the field of stem cell patterning during development and a clear interest in quantitative experimental approaches to understanding living systems.

Previous experience with *C. elegans*, microfluidics applied to biological specimens, live-cell imaging and image analysis is a major asset. Above all, candidates should be driven by a passion for observing and understanding living systems in action.

Required:

· Solid knowledge of developmental biology and genetics

· Either 2 years of experience as a study or research engineer, or doctoral experience with a defended thesis

· Wet-lab experience, ideally with a multicellular model organism (*C. elegans*, zebrafish, Drosophila, mouse...)

· Good organisational and communication skills

· Solid knowledge of imaging techniques and image analysis

· Fluent English

Desirable:

· Basic programming and image analysis skills

Contract Information

Contract type: Fixed-term contract (CDD)

Start date: 01/02/2027

Contract duration: 12 months

Working time: Full time

Gross annual salary: from 28 510€ to 37 861€ according to the applicable salary scales

Benefits: Staff restaurant, 75% reimbursement of annual public transport pass, company health insurance

Location: Paris

Contact

CV and cover letter explaining your interest in our work.

Provide 1 or 2 referees who can supply a letter of recommendation.

Posting date: 19/11/2026

Application deadline: 04/01/2027

True to the legacy of its founder, Institut Curie is fully committed to professional equality between women and men. Convinced that a diversity of profiles and backgrounds enriches our teams and fosters excellence in our missions, we invite everyone to apply for our positions. Our opportunities are open to people with disabilities.

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

DIPLÔME ET EXPÉRIENCE PROFESSIONNELLE

Bac+5, 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

2g84lkitio5k@emploi.beetween.com

OTHER INFORMATION

Type de contrat / de poste : **CDD**
Durée du contrat : **12 mois**

Reference
2g84lkitio

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