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” 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

Contexte

Institut Curie is recruiting a Research Engineer or Scientist in Artificial Intelligence to join the AGORA project (AGentic Orchestration for Research and Clinical Applications in Oncology).

The ambition of AGORA is to design and validate one of the first agentic AI platforms fully dedicated to biomedical research and precision oncology. The platform will be capable of exploring complex biological data, integrating the latest medical knowledge, assisting molecular interpretation, and generating novel research hypotheses. To achieve this goal, AGORA combines large language models (LLMs), biomedical knowledge bases, bioinformatics tools, multi-omics datasets, and clinical data into a unified reasoning framework.

The project brings together experts in artificial intelligence, machine learning, and data science, specialists in health data integration and governance, researchers in systems biology and mechanistic modelling, as well as oncologists actively involved in precision medicine programmes.

The successful candidate will work at the interface of these different groups and will join the Bioinformatics Core Facility and INSERM U1331 Computational Oncology Unit, a highly interdisciplinary environment comprising approximately 100 researchers working in computational biology, bioinformatics, and artificial intelligence.

Main Responsabilities

The position is central to the project and aims to develop the scientific and technological foundations of a new generation of AI assistants for oncology.

As a Generative AI and Multi-Agent Systems Engineer (M/F), you will:

- Design and develop multi-agent architectures for biomedical applications.
- Evaluate and benchmark large language models and agentic AI frameworks.
- Develop workflows integrating:
  - multi-step reasoning,
  - Retrieval-Augmented Generation (RAG),
  - bioinformatics and biological modelling tools,
  - machine learning and predictive AI models.
- Connect AI agents with biomedical knowledge bases, analysis pipelines, and HPC resources.
- Define evaluation protocols assessing response quality, explainability, robustness, and reliability.
- Collaborate closely with biologists, clinicians, bioinformaticians, and data engineers.
- Contribute to scientific publications and future research projects in AI and precision oncology.

APPLICANT PROFILE

KNOWKEDGE AND QUALIFICATIONS EXPECTED

Candidate Profile

Education

· PhD (or equivalent experience) in Computer Science, Artificial Intelligence, Machine Learning, Bioinformatics, Computational Biology, or a related field.

Technical Skills

· Excellent Python programming skills.

· Strong experience with generative AI and large language models.

· Experience with agentic AI systems or complex orchestration architectures.

· Good knowledge of information retrieval methods, RAG systems, vector databases, and/or knowledge graphs.

· Familiarity with Linux environments and modern software development practices.

Preferred Qualifications

· Experience with LangGraph/LangChain, CrewAI, MCP, or similar frameworks.

· Experience in biology, genomics, digital health, biomedical research, or oncology.

· Scientific publications in AI, machine learning, bioinformatics, or computational biology.

Personal Skills

· Scientific curiosity.

· Innovative mindset.

· Ability to work autonomously.

· Interest in interdisciplinary research.

· Ability to transform exploratory ideas into robust and reusable solutions.

Why Join Us ?

AGORA offers a unique opportunity to help shape the next generation of AI systems for oncology by working on real-world scientific and clinical challenges alongside leading researchers and physicians.

The project brings together several of the most exciting areas of modern artificial intelligence, including large language models (LLMs), multi-agent systems, knowledge graphs, multi-omics data integration, biological modelling, and clinical decision support.

Beyond technology development, the ambition is to explore how agentic AI can become a genuine scientific partner—capable of reasoning over complex biomedical data, integrating up-to-date medical knowledge, supporting molecular interpretation, and generating novel research hypotheses.

At the intersection of fundamental research, data science, systems biology, and precision medicine, Institut Curie provides a world-class research environment with access to unique clinical and molecular datasets. You will work within a highly interdisciplinary team and benefit from significant scientific freedom, opportunities for high-impact publications, international collaborations, and participation in the development of future national and European research initiatives.

Contract Information

Contract type: Fixed-term contract (CDD)

Starting date: As soon as possible

Duration: 18 months

Salary: According to experience and institutional salary scales

Benefits: Subsidized staff restaurant, public transportation reimbursement (70%), Private health insurance, Hybrid work opportunities

Location: Institut Curie, Paris, France

Application

Send CV, cover letter, referees

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

fxwmd4gdzk5k@emploi.beetween.com

OTHER INFORMATION

Type de contrat / de poste : **CDD**
Durée du contrat : **18 mois**

Reference
fxwmd4gdzk

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