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

Institute Curie is recruiting a Research Engineer) or Scientist in Artificial Intelligence (M/F) 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 the main AI platform/MLOps engineer (M/F), you will:

· Design the core AI platform architecture and define standards best practices for the project.

· Develop production-ready AI services, APIs, and infrastructure supporting RAG and multi-agent workflows.

· Ensure reproducibility, lineage tracking, logging, auditing and traceability of AI workflows.

· Implement evaluation and continuous validation pipelines for LLM-based systems.

· Define and monitor operational, performance, quality and reliability metrics.

· Build and maintain observability frameworks for AI systems and LLM applications.

· Implement monitoring pipelines covering inference workloads, latency, availability, cost and user interactions.

· Contribute to deployment and operation of GPU and inference infrastructure.

· Work closely with the Institut Curie Data Office and IT teams to ensure compliance and security.

APPLICANT PROFILE

KNOWKEDGE AND QUALIFICATIONS EXPECTED

Candidate Profile

Education

MSc, Engineering Degree, or equivalent qualification in Computer Science, Software Engineering, Bioinformatics, Data Engineering, or a related field.

Technical Skills

- Strong Python development skills.
- Experience building APIs using FastAPI, Flask, or similar frameworks.
- Experience with SQL, NoSQL, and vector databases.
- Experience with Docker/Singularity and containerized environments.
- Familiarity with Linux systems and software engineering best practices.
- Experience developing and operating production-quality software.
- Experience with monitoring, logging, tracing, and observability tools.
- Knowledge of MLOps practices, CI/CD, and AI deployment workflows.

Preferred Qualifications

- Experience operating machine learning or LLM-based systems in production.
- Experience with ML Observability and AI infrastructure.
- Familiarity with OpenTelemetry, or similar tools.
- Experience monitoring model performance, data quality, and drift.
- Experience implementing evaluation frameworks for LLMs, RAG systems, or AI agents.
- Experience with Kubernetes and cloud-native technologies.
- Experience working with biomedical, healthcare, or other regulated data environments.

Personal Skills

- Strong problem-solving abilities.
- Rigorous and quality-oriented mindset.
- Ability to work independently while collaborating within multidisciplinary teams.

· Strong communication skills.

· Interest in research and innovation.

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

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OTHER INFORMATION

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

Reference
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