

Research Assistant I (Junior Developer)

Job Reference Number: C2i-109

Company Overview

The Centre for Immunology & Infection (C2i) is a premier research institute focused on advancing biomarker discovery and the development of next-generation vaccines and therapeutic strategies. Founded through a strategic partnership of over 20 years between the LKS Faculty of Medicine at the University of Hong Kong (HKUMed) and the Institut Pasteur in Paris, C2i integrates world-class expertise in biomedical science to drive innovation in public health.

C2i is dedicated to addressing critical global and local health challenges through cutting-edge technology platforms, with a strong emphasis on translational research and commercial impact. **A key initiative includes the establishment of a foundational model of the immune system to enable AI-driven biomarker discovery and drug development.**

Research Assistant I (Junior Developer) (C2i109-P1)

Applications are invited for appointment as **Research Assistant I** (Functional Title: Junior Developer) **in the Research Program 1 of Centre of Immunology & Infection to commence** as soon as possible on a one-year temporary basis or two-year fixed-term basis, with the possibility of renewal subject to satisfactory performance and mutual agreement. The successful candidate will contribute to cutting-edge projects involving multi-omics big data analysis, with a focus on immunology, genomics, and translational biomedical research.

Key Responsibilities:

- Build and optimize internal web servers, APIs, and data pipelines to support research and operational needs.
- Collaborate with bioinformatics, data science, and laboratory teams to deliver user-friendly, high-performance solutions.
- Integrate AI/ML models into web applications and data workflows to enhance data analysis and automation.
- Ensure data security, privacy, and compliance with industry standards.
- Participate in DevOps processes, including CI/CD, containerization, and cloud deployment (AWS, Azure, GCP).

- Stay current with emerging technologies in AI, MLOps, and web development.
- Knowledge of best practices in data security, version control (Git), and DevOps tools (Docker, Kubernetes) is a plus.
- Strong analytical and problem-solving skills; ability to work independently and in cross-functional teams.

Requirements:

- Bachelor's or Master's degree in Computer Science, Software Engineering, Bioinformatics, or a related field.
- Candidates with 2+ years of professional experience in full-stack web development may be considered for a Research Assistant I.
- Fresh graduates are typically considered for the Research Assistant II role.
- Proficiency in front-end (JavaScript/TypeScript, React.js, Angular, or Vue.js) and back-end (Python, Node.js, Java, or Go; frameworks such as Django, Express, or Spring Boot) technologies.
- Experience with SQL (PostgreSQL, MySQL) and NoSQL (MongoDB, Redis) databases.
- Familiarity with Linux server administration and cloud platforms (AWS, Azure, or GCP).
- Hands-on experience or strong interest in AI/ML model integration (TensorFlow, PyTorch, Scikit-learn, or similar).
- Strong analytical and problem-solving skills; ability to work independently and in cross-functional teams.
- Experience in biotechnology, bioinformatics, or handling scientific/omics data is a strong advantage.

This position offers an excellent opportunity to work in a collaborative and innovative environment with access to state-of-the-art facilities and international research networks. Applicants should submit their up-to-date C.V. quoting the job reference number, current/expected remuneration and availability, to jobs@c2i.hk. Review of applications will start as soon as possible and continue until the post is filled.

We are an equal opportunities employer and welcomes applications from all qualified candidates. The personal data provided in your application process will be kept confidential and only will be used for recruitment and other employment-related purposes. The personal data may be transferred and disclosed to and used by HKU Innovation Holdings Limited and The University of Hong Kong for the above purposes.