

Research Assistant I

Job Reference Number: C2i-108

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 (C2i108-P1)

Applications are invited for appointment as **Research Assistant I 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.

Requirements:

1. **Conduct Molecular Biology Experiments:** Perform bench work techniques such as DNA/RNA extraction, cytokine profiling, , and flow cytometry to generate immunological data from samples.
2. **Analyze Big Data:** Process and analyze large-scale immunological datasets (e.g., single-cell RNA-seq, proteomics) using computational tools like R, Python, or bioinformatics pipelines to identify immune response patterns.
3. **Manage Immunology Sample Recruitment:** Coordinate the collection, processing, and storage of biological samples (e.g., blood, tissue) from clinical or research sources, ensuring compliance with ethical and regulatory standards.

4. **Maintain Data Integrity:** Record experimental and computational results accurately in electronic lab notebooks, ensuring data traceability and reproducibility.
5. **Collaborate with Teams:** Work with interdisciplinary teams, including immunologists, bioinformaticians, and clinicians, to integrate experimental and analytical findings and support project goals.
6. **Assist in Protocol Development:** Contribute to designing and optimizing experimental and analytical protocols, troubleshooting issues to improve assay or analysis reliability.

Responsibilities:

1. **Educational Background:** Bachelor's or Master's degree in immunology, molecular biology, biostatistics, bioinformatics, biochemistry, public health, or a related field. Candidate with less experience would be considered as Research Assistant II.
2. **Bench Work Experience:** Hands-on experience with molecular biology techniques, including at least two of the following: DNA/RNA extraction, qPCR, ELISA, or flow cytometry.
3. **Computational Skills:** Proficiency in data analysis tools such as R Programming, Python, AI platform with experience in handling large datasets (e.g., NGS or proteomic data).
4. **Sample Management Experience:** Familiarity with biobanking, sample processing, or human subjects research, including knowledge of biosafety and ethical guidelines.
5. **Analytical Thinking:** Ability to interpret complex immunological data and troubleshoot experimental or computational challenges.
6. **Communication Skills:** Strong written and oral communication skills for documenting experiments, presenting findings, and collaborating with team members.
7. **Organizational Skills:** Proven ability to manage multiple tasks, prioritize responsibilities, and maintain accurate records in a fast-paced lab environment.

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.