

JOB DESCRIPTION

Job Title: Research Technician/Technologist
Job Code: ?
Salary Plan: Nonexempt
Lab: Allen Lab
Direct Supervisor: Karen Power

Employing Hospital and Department:
Ragon Institute of MGH, MIT, and Harvard

General Summary/Overview:

Summary:

A position is open for a full-time technician or technologist within the Allen Laboratory at the Ragon Institute of MGH, MIT, and Harvard located in Kendall Square in Cambridge, MA (<http://www.ragoninstitute.org/portfolio-item/allen-lab/>). The candidate will assist in research developing novel approaches to eradicate HIV reservoirs towards establishing a functional cure for HIV.

This position will focus on utilizing gene-editing approaches (such as CRISPR-Cas9 of CCR5) to protect human CD4+ T cells and stem cells from HIV infection, as well as improving the potency of HIV-specific chimeric antigen receptor T (CAR T) cells to target and eradicate HIV reservoirs. These studies will be conducted using humanized mice (BLT and HSC+ models) and will involve both cellular and molecular bench work.

Job Duties:

Under the direction of the PI, Lab Manager, and/or research fellow, responsibilities include but are not limited to:

- Cell/tissue processing and maintenance, viral propagation and titering
- Flow cytometry, immunohistochemistry staining and microscopy analysis
- Perform molecular analysis of HIV utilizing standard techniques (DNA and RNA extraction, PCR amplification, cloning)
- Next-generation sequencing (NGS) of HIV and data analysis/interpretation
- Utilize the CRISPR/Cas9 system to genetically modify human CD4+ and hematopoietic stem cells
- Perform limited monitoring, blood draws, and injections of immunodeficient mice
- Independently perform routine and non-routine experiments which are moderate to complex
- Ensures quality control of equipment, reagents and cellular components
- Performs maintenance, inventory, cleaning, and organizational tasks for the laboratory
- Work in both BSL1 and BSL2+ environments
- Detailed documentation of experimental work
- Assists in project coordination of multiple cohorts
- Attend and participate in weekly lab meetings and scientific discussions, present data

SKILLS/ABILITIES/COMPETENCIES REQUIRED:

- Good organizational skills and excellent attention to detail
- Excellent documentation skills
- Strong candidates will have demonstrated experience in molecular or cellular laboratory work
- Must have good interpersonal skills and ability to perform as a team member
- Some occasional weekend or evening flexibility may be required
- 2 year commitment preferred

EDUCATION:

College degree ideally in biology, molecular biology, chemistry, or biochemistry.

EXPERIENCE:

- New graduates with laboratory experience (via course work, internships, etc.) will be considered for the Research Technician I position.
- Those with a minimum of 1 year of directly related work experience will be considered for a Research Technician II position.
- Applicants with 3+ years of experience will be considered for a Research Technologist position.