



Job Title: Research Technician

Job Family: Research

Job Code: 000319 & 001593

Grade: 13 & 14

Department: All Research Departments

#### GENERAL SUMMARY/ OVERVIEW STATEMENT:

Positions are open for full-time technicians in the Yu and Lichterfeld Labs at the Ragon Institute of MGH, MIT and Harvard. Candidates will assist in virological and immunological research on pathogenesis and viral persistence during HIV-1 infection. Knowledge gained from these studies will help guide the design of more effective vaccines and treatments against various infectious pathogens, particularly HIV-1.

#### PRINCIPAL DUTIES AND RESPONSIBILITIES:

Under the direction of the PI and postdoctoral research fellows, a Research Technician is expected to independently:

- Perform assays utilizing standard molecular biology and immunology techniques (cloning, DNA and RNA extraction, quantitative PCR, droplet digital PCR, reverse transcription, gel electrophoresis, flow cytometry, library preparation for next generation sequencing)
- Assist in cell/tissue processing and in vitro cell culture maintenance in a BSL-2+ setting
- Assist in inventory of laboratory supplies and reagents
- Participate in ongoing quality control/assurance programs
- Perform data analysis and visualization in Microsoft Excel, GraphPad Prism, and Adobe Illustrator
- Present findings in one-on-one meetings with the PI and on a quarterly basis in lab meetings

#### SKILLS/ABILITIES/COMPETENCIES REQUIRED:

##### Research Technician I

- Recent graduate to 2 years of experience
- Excellent organizational skills and attention to detail
- Can perform effectively as a team member--particularly open communication with team members
- Strong interest in HIV-1 and infectious disease wet lab research

Research Technician II, in addition to the above should possess:

- Analytical skills and the ability to resolve technical problems
- Ability to interpret acceptability of data results

- Working knowledge of data management programs
- Demonstrated competence in research techniques and methodologies

**EDUCATION:**

Bachelor's degree required.

**EXPERIENCE:**

New graduates with some lab experience (via course work, internships, etc.) or those without any prior research experience will be considered for the Research Technician I position outlined above.

Those with a minimum of 1 year of **directly related** work experience will be considered for a Research Technician II position.

**SUPERVISORY RESPONSIBILITY (if applicable):**

A Research Technician II may serve as a team leader to lab assistants and Research Technician I's.

**ADDITIONAL INFORMATION:**

- Contact: those interested in this position may email their CV to Zachary Manickas-Hill ([zmanickas-hill@mgh.harvard.edu](mailto:zmanickas-hill@mgh.harvard.edu))
- Yu Lab website: <https://ragoninstitute.org/yu/>
- Lichterfeld Lab website: <https://ragoninstitute.org/lichterfeld/>