

MASSACHUSETTS GENERAL HOSPITAL

Job Title: Technologist

Job Family: Research

Job Code: Grade:

Department: All Research Departments

GENERAL SUMMARY/ OVERVIEW STATEMENT:

A position is open for a full-time technologist at the Ragon Institute of MGH, Harvard, and MIT in the laboratory lead by Dr. Ryan McNamara. The Systems Serology Lab specifically focuses on understanding how cytolytic antibodies, produced during infection or immunization, may be used to target innate immune cells specifically to virally infected cells or virions themselves, for elimination. The technologist will work on a number of projects aimed at defining the mechanism by which antibodies are able to recruit innate immune cells to mediate pathogen control as well as on clinical studies. All the work will be performed following laboratory SOPs, guidelines and documentation protocols. Furthermore, the technologist will be asked to test new approaches, design experiments independently, address technical problems, present results to the team, design follow-up experiments, consult scientific literature, and maintain well-documented lab records.

PRINCIPAL DUTIES AND RESPONSIBILITIES:

- Prepares basic solutions and performs base-level procedures as assigned (i.e. – pipetting, cell and tissue culture, etc.)
- Maintains laboratory notebook and records
- Understands and applies basic scientific techniques
- Conducts analysis of results and may begin interpretation of results
- Sets up and prepares routine experiments as directed
- Prepares lab reagents, chemicals, instruments and equipment
- May perform independent literature searches
- Assists with organizing materials for publication or presentation
- Help with equipment cleaning and maintenance
- Execute protocols of non-routine experiments
- Assist the PI(s) with determining the most suitable methodology
- Perform basic design and modification of protocols
- Calculate, transcribe and analyze data
- Prepare and present reports
- Organize and summarize acquired data, using scientific and statistical techniques.
- Organize and/or draft material for the preparation of research papers, manuscripts and other documents for publication and/or presentation.
- Participate in the design of experiments or field work.

SKILLS/ABILITIES/COMPETENCIES REQUIRED:

- Attention to details
- Ability to work independently and as a team member
- Good communication skills
- Computer literacy
- Working knowledge of clinical research protocols
- Ability to perform multiple tasks independently
- Ability to work under tight deadlines
- 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:

BS required.

EXPERIENCE:

4+ years of experience required

SUPERVISORY RESPONSIBILITY (if applicable):

A technologist may serve as a team leader to lab assistants and research technicians.