

Job Title: Research Technician

Job Code:

Salary Plan: Non Exempt

Lab: Bryson

Direct Supervisor: Bryan Bryson

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

Minimum degree and field of knowledge: BS/BA Biology, immunology, biochemistry, microbiology or biological engineering

Years experience required: 1 – 2 years experience

Summary: A position is open for a full-time technician at the Ragon Institute of MGH, Harvard and MIT. The candidate will assist in research investigating the immunological mechanisms contributing to development of chronic symptoms following infection by the Lyme bacterium *Borellia*. A central focus of the studies is illuminating how *Borellia* interacts with components of the innate immune system immediately after infection, including distribution into the blood stream to seed distant sites, and how adaptive immune responses then influence persistent symptoms that may include feedback to the innate immune system. The project involves extensive use of human in vitro tissue-engineered models of infection and immune response, and includes a collaboration with the Griffith and Lauffenburger labs at MIT and the Alter lab at the Ragon.

Job Duties: Under the direction of the principal investigator and/or a research fellow, the applicant independently carries out daily activities supporting the project. The technician will be responsible for assisting with the processing and characterization of human immune cells, *Borellia* culture, and assistance with creating tissue engineered models in a coordinated effort with the MIT lab.

- Performs assays utilizing standard techniques (antibody staining, flow cytometry, DNA/RNA extraction and analysis, standard and quantitative PCR, ELISA)
- Cell/tissue processing, culture and maintenance
- Independently performs routine and non-routine experiments that are moderate to complex
- Ensures quality control of equipment, reagents and cellular components
- Participates in on-going quality control/assurance programs
- Ordering and inventory of laboratory supplies related to the project
- Detailed documentation of the experimental work
- Regular maintenance, cataloging and back-up of experimental data files
- Coordination of experiments with collaborating MIT labs when needed

Qualifications:

- Good organizational skills and excellent attention to detail
- Must be willing to learn and grow
- Excellent documentation skills
- Ability to perform as a team member
- Must have good interpersonal skills
- Occasional weekend or evening flexibility may be required
- Computer experience is essential

The above job description details the major duties and qualifications of the listed position. The employee hired to this position confirms that he/she is able to perform all duties outlined. Although the specific duties and responsibilities of this position may vary slightly, the supervisor of this position will ensure that the employee hired to this position is trained and qualified to complete each task assigned. If the duties or responsibilities of this position need to change significantly, then the supervisor must submit an updated job description to the Office Manager for review.