

Senior Research Technician - Molecular Biology and
Microbiology, School of Medicine
Tufts University

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Posted Feb. 10, 2020, expired Jun. 24, 2020

Job Title Senior Research Technician - Molecular Biology and
Microbiology, School of Medicine

Department

Institution Tufts University
Boston, Massachusetts

Date Posted Feb. 10, 2020

Application Deadline Open until filled

Position Start Date Available immediately

Job Categories Research Scientist/Associate

Academic Field(s) Statistics & Actuarial Science

Biology - Molecular

Biology - Cell Biology

Biology - General

Job Website <https://tufts.taleo.net/careersection/ext/jobdetail.ftl?job=20001155>

Apply By Email

Job Description

The faculty in MBM are united by a common interest in the biology of microbes (bacteria, fungi, viruses, and parasites) and the effects of microbes on human and animal hosts. The microbial pathogens program studies microorganisms that cause infectious diseases, with emphasis on rigorous analysis of these pathogens and the immune responses that restrict them. Program investigators direct detailed studies of pathogenic bacteria, viruses, fungi and eukaryotic parasites. Research topics include structural analysis of virus entry, viral evolution, viral oncogenes, intracellular bacterial pathogens, microorganisms that cause diarrhea and pneumonia, intracellular signaling, pathogen adhesion, genetic determinants involved in susceptibility to infection, vaccine development, and identification of novel antimicrobial agents.

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The primary role of this job is analysis of quantitative data of bacterial response to drug treatment, multidimensional imaging data, and other metrics of cell physiology. Therefore, a key role in this position is developing data-driven mathematical models and custom code. The strongest candidates will have computer programming and quantitative analysis skills and expertise in machine learning and statistics (such as quantitative image analysis, MATLAB or python programming, and machine learning). Under supervision of the principal investigator, other lab members, and senior scientists in neighboring labs who are intimately familiar with the techniques required, the Research Technician may conduct a variety of experiments using a variety of skills, which may include culturing bacterial and mammalian cells, performing fixed-cell and live-cell microscopy, making mesoscale and high-throughput measurements, and using microfluidic devices.

Qualifications

Basic Requirements:

BS degree in the quantitative sciences or engineering.

Scientific computing, data analysis software.

Preferred Qualifications:

Consistent attention to detail, quantitative intuition, high scientific standards, and excellent organizational and communication skills are critical.

Knowledge of MS Office products, statistical/quantitative analysis and computation is necessary.

Previous experience working with quantitative molecular biology and/or cell biology techniques are preferred.

Special Work Schedule Requirements:

Occasional need to work beyond regular work hours, holidays, or weekends as experiments demand.

Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

Contact