

Research Assistant Tufts University

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Posted Dec. 27, 2022, set to expire Dec. 31, 2023

Job Title	Research Assistant
Department	Microbiology
Institution	Tufts University Medford, Massachusetts
Date Posted	Dec. 27, 2022
Application Deadline	Open until filled
Position Start Date	Available immediately
Job Categories	Research Scientist/Associate
Academic Field(s)	Biology - Microbiology Biology - General
Job Website	https://jobs.tufts.edu/jobs/18370?lang=en-us&iis=Job+Board&iisn=AcademicKeys
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Job Description	

Overview

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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What You'll Do

In collaboration with Principal Investigator develops and modifies techniques and protocols and provides input into research design. Works independently performing a wide range of specialized techniques and experiments. Analyzes data, interprets results and assists in writing materials for publication and presentation. May supervise or provide work direction to others in the laboratory and helps manage laboratory operations.

- Conducts specialized laboratory experiments.
- Performs advanced procedures such as DNA sequencing and molecular biology techniques.
- Develops research study design, techniques and protocols in collaboration with Principal Investigator.
- Reviews results and suggests modifications to experiments and protocols where necessary.
- Oversees collection and data entry of results.
- Analyzes and interprets data and drafts results of experiments
- Writes summaries and material for presentation and publication

What We're Looking For

Basic Requirements:

- Knowledge and experience typically acquired by Bachelor's degree in science and 3-5 years of related laboratory experience OR Master's degree and up to one year laboratory experience

Preferred Qualifications:

- Master's degree in immunology, microbiology, or a related field
- Familiarity with microbial or host genetics/omics and the ability to analyze such datasets.
- Experience with gene perturbation (siRNA/CRISPR) is a plus.
- Knowledge of and experience with advanced laboratory techniques and procedures, data interpretation and statistical analysis.

Contact Information

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

Contact



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