

Research Technician Tufts University

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Posted Apr. 8, 2024, set to expire Dec. 31, 2024

Job Title	Research Technician
Department	
Institution	Tufts University Medford, Massachusetts
Date Posted	Apr. 8, 2024
Application Deadline	Open until filled
Position Start Date	Available immediately
Job Categories	Classified Staff
Academic Field(s)	Research/Technical/Laboratory
Job Website	https://jobs.tufts.edu/jobs/20350?lang=en-us&iis=Job+Board&iisn=AcademicKeys
Apply By Email	
Job Description	

Overview

The faculty in Molecular Biology and Microbiology (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

The major functions of this position are to conduct experiments and to organize the laboratory. Duties will include: use of a murine model of gastrointestinal colonization and infection with *Candida albicans* and *Clostridioides difficile* to study effects of fungi on bacterial disease, isolation of *C. albicans* and *C. difficile* strains from human specimens, assist with maintenance of human organoids in tissue culture, ordering supplies, maintaining required paperwork to ensure regulatory compliance. Past technicians have been co-authors on publications from the laboratory. The successful candidate must be personable and extremely well organized and have a BA or BS in a scientific discipline. Training will be provided for the techniques required to conduct the research project.

- Perform studies of *C. albicans* and *C. difficile* gastrointestinal colonization and infection in mice:
 - handle mice
 - inoculate mice with microorganisms
 - evaluate outcome of inoculation
 - keep accurate records of experiments and results
- Culture *C. albicans* and *C. difficile* strains from human specimens:
 - plate on selective media
 - characterize phenotypes
- Assist with culture of human organoids
 - prepare conditioned medium that contains essential growth factors
- Manage the laboratory including (but not limited to):
 - order supplies and maintain inventory
 - maintain laboratory equipment for optimal productivity
 - perform assigned lab maintenance duties on a regular basis

What We're Looking For

Basic Requirements:

- Bachelor's degree in a Biological science or Chemistry, with up to one year of laboratory experience.
- Proficient in the use of Microsoft Office and PRISM software.
- Must be able to fluently communicate, read, and write in the English language.
- Self-motivation, consistent attention to detail, and excellent organizational, communication, and time management skills are very important.

Preferred Qualifications:

- Previous experience with animal modeling, working with microbiology and/or molecular biology



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are preferred but not required.

Pay Range

Minimum \$19.80, Midpoint \$23.55, Maximum \$27.30

Salary is based on related experience, expertise, and internal equity; generally, new hires can expect pay between the minimum and midpoint of the range.

Contact Information

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

Contact