

**Research Associate  
Tufts University**

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Posted Jul. 17, 2025, set to expire Dec. 31, 2025

<b>Job Title</b>	Research Associate
<b>Department</b>	
<b>Institution</b>	Tufts University Medford, Massachusetts
<b>Date Posted</b>	Jul. 17, 2025
<b>Application Deadline</b>	Open until filled
<b>Position Start Date</b>	Available immediately
<b>Job Categories</b>	Research Scientist/Associate
<b>Academic Field(s)</b>	Biology - General Sciences - General
<b>Job Website</b>	<a href="https://jobs.tufts.edu/jobs/22055?lang=en-us&amp;iis=Job+Board&amp;iisn=AcademicKeys">https://jobs.tufts.edu/jobs/22055?lang=en-us&amp;iis=Job+Board&amp;iisn=AcademicKeys</a>
<b>Apply By Email</b>	
<b>Job Description</b>	

**Overview**

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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.

### What You'll Do

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 Associate 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, quantitative image analysis, MATLAB and python programming, and machine learning. In these capacities, the Research Assistant will also record test results and analyze data using statistics.

- Conduct and design experiments:
  - follow and design appropriate protocols/procedures to achieve results and test specific hypotheses.
  - perform techniques such as cell culturing, preparing samples for live-cell microscopy, mesoscale analysis, flow cytometry, molecular biology procedures, and testing drug regimens.
- Record results and assist with data analysis:
  - keep accurate records of experiments and results
  - perform data interpretation/summarization including writing custom code and models
  - communicate findings to PI
  - interact scientifically with labmates
  - Prepare manuscripts describing results for publication
- Help manage the laboratory (as all lab members do), including (but not limited to) assisting and training other lab members, ordering supplies and noting inventory, lab organization, maintaining lab safety and biosafety documentation, and coordinating equipment repair

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### What We're Looking For

#### Basic Requirements:

- Knowledge and skills as typically acquired through Ph.D. in science and 3-5 years of related laboratory experience

#### Preferred Qualifications:

- Consistent attention to detail and excellent organizational and communication skills are critical.
- Knowledge of MS Office products, statistical/quantitative analysis, and computation is necessary.

### Contact Information

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

### Contact

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