

Research Technician - Biomedical Engineering Tufts University

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Posted Oct. 9, 2024, set to expire Feb. 21, 2025

Job Title	Research Technician - Biomedical Engineering
Department	
Institution	Tufts University Medford, Massachusetts
Date Posted	Oct. 9, 2024
Application Deadline	Open until filled
Position Start Date	Available immediately
Job Categories	Coordinator
Academic Field(s)	Research/Technical/Laboratory
Job Website	https://jobs.tufts.edu/jobs/21009?lang=en-us&iis=Job+Board&iisn=AcademicKeys
Apply By Email	
Job Description	

Overview

Research in the Iyer Stem Cell and Regeneration lab focuses on engineering human pluripotent stem cells (hPSCs) to understand and regenerate region-specific neural circuits in the spinal cord. Projects involve directing hPSC fate, developmental and neurodegenerative disease modeling in vitro, and biomanufacturing cell therapies. We are a small but growing team of collaborative, interdisciplinary scientists and engineers spanning biomedical engineering, chemical engineering, molecular biology, developmental biology, and neuroscience. We value inclusivity and promote creative teamwork as a means to develop innovative solutions to critical biomedical problems and enhance our mission to train the next generation of scientists. We are interested in highly self-motivated and collaborative team members, and will orient your experience in the lab to help you achieve your long-term professional goals.

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What You'll Do

Under the close supervision of the Principal Investigator, the Research Technician will manage daily/weekly lab maintenance tasks, assist in the cultivation of human stem cells, and provide support for a range standardized assays used in the laboratory. professional goals.

Responsibilities include:

- Maintaining laboratory equipment, including troubleshooting of instruments, taking and recording corrective actions, maintenance of equipment in working order.
- Assist in the setup of new procedures, modification of existing procedures, update of procedure manuals
- Participate in lab duties maintaining shared lab space and supplies
- Attends mandatory annual training sessions in fire safety, chemical hygiene, and laboratory safety, HIPAA compliance
- Performs other similar and related duties as required or directed i.e., assisting in order and stock levels, making lab stock solutions for assays and culture medium, autoclave trash, waste pick-up coordinator, protocol write-ups and updates of general lab activities
- Human stem cell culture - standard cell culture techniques, media preparation, cell expansion, cell storage
- Molecular biology - standard assays (qPCR), protein and immunohistochemistry characterization of cells and tissue samples
- Specific experimental assistance and/or independent project management as needed

What We're Looking For

Basic Requirements:

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- Knowledge and skills typically acquired by a BS degree in biomedical engineering, biology, neuroscience, or a related field.
- Wet lab, biological laboratory experience (academic or industrial)
- Ability to work accurately, effectively, within a team and independently under pressure and to meet deadlines
- Ability to manage work with minimal supervision.
- Excellent verbal and written communication skills; highly self-motivated
- Ability to multi-task and work on multiple projects simultaneously
- Demonstrated organizational skills and ability to pay close attention to detail
- Motivation to learn and grow in scientific expertise
- Ability to trouble-shoot technical issues
- Ability to plan and prioritize work while responding flexibly to rapidly changing priorities

Preferred Qualifications:

- BS degree in Biomedical Engineering, Biology, Neuroscience, or a related field
- Experience in mammalian cell culture, basic molecular biology techniques, and fluorescence imaging
- Ability to read scientific literature and adapt/design new protocols
- Accurate, detailed data and record keeping
- Experience with ImageJ, statistical software and/or programming

The position is available full-time or part-time, depending on the requirements of the individual applicant. This is a grant funded position and is not eligible for severance pay.

Pay Range

Minimum \$20.10, Midpoint \$23.90, Maximum \$27.70

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

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applying for or inquiring about this job announcement.

Contact

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