

Senior Research Technician - Biology Tufts University

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Posted Aug. 1, 2024, set to expire Dec. 31, 2024

Job Title	Senior Research Technician - Biology
Department	The Allen Discovery Center
Institution	Tufts University Medford, Massachusetts
Date Posted	Aug. 1, 2024
Application Deadline	Open until filled
Position Start Date	Available immediately
Job Categories	Professional Staff
Academic Field(s)	Research/Technical/Laboratory
Job Website	https://jobs.tufts.edu/jobs/20797?lang=en-us&iis=Job+Board&iisn=AcademicKeys
Apply By Email	
Job Description	

Overview

[The Allen Discovery Center](#) is dedicated to the advancement of basic biology and biomedicine, and to using an integrated approach to control biological structure and function. Through a combination of molecular genetics, biophysics, and computational approaches, researchers at the Center work toward a multi-level control of patterning. Novel technology is being developed to modulate the bioelectric communication that enables cells to coordinate their activities toward specific anatomical and functional outcomes. This new type of epigenetic control has significant implications for developmental biology, evolution, unconventional computation, and synthetic bioengineering. Applications in progress include the repair of birth defects, regenerative medicine, cancer reprogramming, and synthetic biology.

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What You'll Do

We are seeking an experienced and skilled Research Lab Technician to join our project on mammalian limb regeneration. This highly motivated individual will work closely with senior scientists at our Center, and report to our Administrative Director. The Senior Research Technician will have proficiency performing animal microsurgery, immunohistochemistry (IHC) and tissue sectioning who can work independently with minimum supervision. We are seeking someone with strong initiative in taking ownership and responsibility for some project aspects, such as designing and optimizing IHC protocols. This position requires someone who is a proactive problem-solver and can work well under pressure and committed to producing high-quality results. The ideal candidate must be detail-oriented, experienced in producing reproducible high-quality data, able to manage multiple concurrent tasks, and be an excellent verbal and written communicator.

What We're Looking For

Basic Requirements:

- Knowledge and skills as typically acquired by a Bachelor's degree in Biology, or Biomedical science, or related discipline is required
- A minimum of 1-year wet lab experience in a research setting, with proficiency in one or more of the following areas:
 - Advanced microsurgical techniques
 - IHC protocol optimization
 - Tissue sectioning (cryostat, microtome)
 - Fluorescence In Situ Hybridization (FISH) protocol optimization
- Experience working with animal models is preferred, and being comfortable working with animal models is required
- Good manual dexterity and coordination are required, as this role demands precision in handling delicate meticulous surgical work on small animal models (mice)
- A strong understanding of animal physiology, anatomy, and ethics in research

Preferred Qualifications:

- Experience with histological sectioning (frozen and paraffin-embedded) is strongly preferred
- Excellent organizational, analytical and record-keeping skills, as well as a firm understanding of stoichiometric calculations
- The ideal candidate will have the ability to multi-task, follow instructions accurately, and work semi-independently
- Good communication skills and the ability to work collaboratively in a team environment are essential
- A successful candidate will possess a strong drive toward excellence in state-of-the-art research

Special Work Schedule Requirements:



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This position requires the ability to be organized in a fast-paced environment and demands detailed work on multiple concurrent tasks requiring concentrated attention. While performing the duties of this job, the employee may be required to work with toxic or caustic chemicals. The employee is occasionally exposed to wet and/or humid conditions; moving mechanical parts; fumes or airborne particles. The noise level in the work environment is usually moderate. Some evening and weekend work may be required.

Pay Range

Minimum \$24.30, Midpoint \$28.90, Maximum \$33.50

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