

TUFTS UNIVERSITY

JOB DESCRIPTION

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|---|---|------------------|----------|
| Job title: | Post-doctoral scientist, Biochemist/Cell Biologist | Date: | 3/1/2017 |
| Supervisor Title: | Program Director, AstraZeneca-Tufts Lab for Basic and Translational Neuroscience Research | | |
| Department: | Neuroscience | | |
| This Section to be completed by HR Compensation | | | |
| FLSA status: | <input type="checkbox"/> Non-Exempt <input checked="" type="checkbox"/> Exempt | Band: | |
| | | Pay Zone: | |
| | | Job Code: | |

Department Summary

The Tufts University Neuroscience department is dedicated to investigating the mechanisms of neurobiological disorders to improve therapeutic approaches to treating mental health. The neuroscience department has a specific focus on drug development and discovering new drug targets for preclinical research.

Job Summary

We are looking for 1-2 postdoctoral scientists to join the AstraZeneca-Tufts Laboratory for Basic and Translational Neurosciences embedded in the Neuroscience department at Tufts University School of Medicine. The successful candidates will apply cutting edge approaches and thinking to some of the most devastating brain disorders of our age. They will be experts in the areas of biochemistry & cell biology (2 positions available; protein mis-folding/cell signaling/stem cell expertise/protein trafficking/imaging). This is a truly unique opportunity to join a team working at the interface of academia and industry. You'll have access to cutting edge technology and facilities plus open access to the very experienced AstraZeneca Neuroscience drug discovery team based in Boston, MA, USA. Our laboratory has been operational since 2013 and is clearly displaying the benefits of a truly integrated industry – academic team. Co-supervised by Prof. Stephen Moss of Tufts University School of Medicine and Dr. Nick Brandon from the AstraZeneca Neuroscience Unit, you will communicate your research results externally through top-tier publications and scientific conferences. Should you be selected for this Tufts Postdoc opportunity, it will not be as an AstraZeneca employee, but as an employee of Tufts University.

Essential Functions:

| Essential Functions: | % |
|---|----|
| <ul style="list-style-type: none"> • Design and conduct research to validate and characterize the role of candidate pathways, mechanisms, targets and experimental therapeutics for a range of brain disorders. | 80 |
| <ul style="list-style-type: none"> • Interact and collaborate with scientists across Tufts and AstraZeneca. Become an active leader within the growing Tufts and AZ scientific community. | 15 |
| <ul style="list-style-type: none"> • Publish scientific papers and attend conferences to communicate novel findings to the research community. | 5 |

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*This description is not intended to be all-inclusive.
Employee may perform other duties as assigned to meet the ongoing needs of the organization.*

Minimum Required Experience, Education, Background, And Certifications/Licenses

A PhD in one of the following areas:

- Cell biology, Biochemistry, Cell signalling, Pharmacology (Neuroscience or related disciplines preferred)

Additional Preferred Experience, Education, etc.

- Biochemistry
 - Experience with handling proteins in the mis-folding/prion areas
 - Experience in protein purification and post-translational modification
- Cell Biology
 - Understanding of protein trafficking
 - Deep interest in cellular signalling pathways
 - Expertise in advanced microscopy approaches
- Prior skills with using rats and mice for experiments is preferred
- Ability to design and carry out research independently
- Strong written and oral communication skills
- Ability to work effectively with colleagues and initiate collaborations with peers

An employee in this position must complete all appropriate background checks at the time of hire, promotion, or transfer.

Physical and Mental Requirements:

The Americans with Disabilities Act requires employers to make reasonable accommodations for a person with a disability. The information below is needed to assist the university in meeting these regulations.

Click all that apply:

Physical Demands:

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|--|--|----------------------|---|--|
| <input type="checkbox"/> Standing | <input type="checkbox"/> Lifting | <u> </u> lbs. | <input type="checkbox"/> Pushing/Pulling | <input checked="" type="checkbox"/> Seeing |
| <input type="checkbox"/> Walking | <input checked="" type="checkbox"/> Carrying | <u> 5 </u> lbs. | <input type="checkbox"/> Squatting/Kneeling | <input checked="" type="checkbox"/> Hearing |
| <input checked="" type="checkbox"/> Reaching | <input checked="" type="checkbox"/> Writing | | <input type="checkbox"/> Driving | <input checked="" type="checkbox"/> Speaking |
| <input type="checkbox"/> Climbing | | | | |
| <input type="checkbox"/> Other: | | | <input type="checkbox"/> Other: | |

Physical Environment:

- | | | | |
|---|---|---|--|
| <input checked="" type="checkbox"/> Chemicals | <input checked="" type="checkbox"/> Carcinogens | <input type="checkbox"/> Dirt | <input checked="" type="checkbox"/> Animal Tissue/Fluids |
| <input checked="" type="checkbox"/> Bio hazardous Materials | <input checked="" type="checkbox"/> Toxic Chemicals | <input checked="" type="checkbox"/> Radiation | |
| <input type="checkbox"/> Other: | | <input type="checkbox"/> Other: | |

Mental Demands:

- | | | | |
|---|--|--|---|
| <input checked="" type="checkbox"/> Detailed Work | <input checked="" type="checkbox"/> Reading | <input checked="" type="checkbox"/> Frequent Deadlines | <input type="checkbox"/> Frequent Interruptions |
| <input checked="" type="checkbox"/> Periods of Concentrated Attention | <input checked="" type="checkbox"/> Frequent Contact with People | <input type="checkbox"/> Multiple Concurrent Tasks | |
| <input type="checkbox"/> Other: | | <input type="checkbox"/> Other: | |

Occupational Exposure:

- | | | | |
|--|---|---|-----------------------------------|
| <input checked="" type="checkbox"/> Research/Lab Animals | <input type="checkbox"/> Domestic Animals | <input type="checkbox"/> Livestock/Horses | <input type="checkbox"/> Wildlife |
| <input type="checkbox"/> Other: | | <input type="checkbox"/> Other: | |

Working conditions: (Consider exceptional working conditions, travel requirements, non-standard work schedule, etc.)

May work with and be exposed to hazardous chemicals and materials, human/animal tissue and fluids, radiation.

UNIVERSITY MISSION: Tufts is a student-centered research university dedicated to the creation and application of knowledge. We are committed to providing transformational experiences for students and faculty in an inclusive and collaborative environment where creative scholars generate bold ideas, innovate in the face of complex challenges and distinguish themselves as active citizens of the world.

TUFTS COMPETENCIES: Tufts competencies describe the knowledge, skills and behaviors required to effectively perform a job in the university:

Expertise: Requisite skills for the position; sharing of expertise; support of others in learning and skill building; pride in work; commitment to professional development.

Interaction with Others: Demonstrated communication skills; openness to different viewpoints; respect shown for others; collaboration on joint projects and decisions; ability to give and receive candid and helpful feedback.

Continuous Improvement: Measurable improvement made in systems or processes; system efficiency; innovation and creativity; commitment to generating new solutions and ideas.

Customer Focus: Attention to and focus on customer satisfaction; effective and appropriate relationships with customers; successfully anticipate and meet the needs of both internal and external customers.

Resourcefulness and Results: The ability to work effectively in a variety of situations; demonstrating good work habits, flexibility and initiative; using multiple resources to achieve desired results; seeking input and assessing risks when decision making; committing to getting things done.

Leadership: Model desired behavior for position; act as catalyst for change through positive energy. (For management positions, refer to the Leadership Competency Model.)

| MANAGEMENT APPROVER NAME: | TITLE: | DATE: |
|--------------------------------|--------|-------|
| | | |
| HR/COMPENSATION APPROVER NAME: | TITLE: | DATE: |
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