

# Postdoctoral Scientists; Neuroscience

## AstraZeneca & Tufts University - Medford, MA

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### About this job

#### Job description

#### A unique opportunity to help advance Neuroscience

We are looking for 4-5 postdoctoral scientists to join the neuroscience department at Tufts University School of Medicine and AstraZeneca to apply cutting edge approaches and thinking to some of the most devastating brain disorders of our age.

Based in the Dept. of Neuroscience at Tufts University School of Medicine in Boston, the successful candidates will be experts in the areas of biochemistry (protein aggregation/misfolding in particular), cell biology (protein trafficking, imaging) and electrophysiology (in vivo experience in particular).

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 Cambridge, MA, USA.

We have already grown the group to 6 postdocs and are starting to see the benefits of a truly integrated industry – academic team.

Co-supervised by Dr. Stephen Moss of Tufts University School of Medicine and Dr. John Dunlop and Dr. Nick Brandon from the AZ Neuroscience iMED, you will communicate your research results externally through top-tier publications and scientific conferences.

### **Major Responsibilities**

- Design and conduct research to validate and characterize the role of candidate pathways, mechanisms, targets and experimental therapeutics for a range of brain disorders.
- Interact and collaborate with scientists across Tufts and AstraZeneca. Become an active leader within the growing Tufts and AZ scientific community.
- Publish scientific papers and attend conferences to communicate novel findings to the research community.

### **Desired Skills and Experience**

#### **Minimum Experience:**

A PhD in one of the following areas:

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

#### **Preferred Experience/Requirements**

Biochemistry:

- Experience with handling proteins in the aggregation/mis-folding/prion areas of high interest
- Experience in protein purification and modification

Cell Biology:

- Understanding of protein trafficking
- Deep interest in cellular signalling pathways
- Expertise in multi-photon microscopy, live-cell imaging, other advanced microscopy approaches.

Electrophysiology:

- Experience of in vivo electrophysiology preferred.
- Expertize in a more in vitro setting (using primary neuronal cultures or brain or spinal cord slices for example) also will be considered.
- Interest in ion channel structure-function relationships

Ability to design and carry out research independently

Skilled in using rats and mice for experiments

Strong written and oral communication skills

Ability to work effectively with colleagues and initiate collaborations with peers

Should you be selected for this Tufts Postdoc opportunity, it will not be as an AstraZeneca employee, but as an employee of Tufts University.

Please send a cover letter and resume when applying.

## About this company

AstraZeneca is a global, innovation-driven biopharmaceutical business that focuses on the discovery, development and commercialisation of prescription medicines, primarily for the treatment of cardiovascular, metabolic, respiratory, inflammation, autoimmune, oncology, infection and neuroscience diseases. AstraZeneca operates in over 100 countries and its innovative medicines are used by millions of patients worldwide. For more information please visit [www.astrazeneca.com](http://www.astrazeneca.com).

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