# Research Engineer
# Tufts University

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| **Job Title** | Research Engineer |
| **Department** | |
| **Institution** | Tufts University<br>Medford, Massachusetts |
| **Date Posted** | Mar. 19, 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/20272?lang=en-us&iis=Job+Board&iisn=AcademicKeys |
| **Apply By Email** | |
| **Job Description** | |

## Overview

Tufts University is seeking a highly motivated and skilled Staff Research Engineer to join our dynamic team. This unique role involves working closely with leading professors on funded projects, focusing on the development and maintenance of both software and hardware infrastructure critical to the project's success. If you are passionate about pushing the boundaries of technology and research within the academic sphere, this position offers a remarkable opportunity to contribute to impactful projects while expanding your knowledge and skills in machine learning and AI.

## What You'll Do

**Key Responsibilities:**

? Collaborate with project leads to design, develop, and maintain advanced
software and hardware solutions that support research objectives.
? Implement and optimize algorithms on GPUs using Pytorch and other relevantframeworks.
? Engage in language modeling with transformers, particularly focusing on LargeLanguage Models (LLMs), including working with and contributing to
open-source models.
? Maintain and enhance infrastructure supporting the LLM ecosystem, including
vector databases, LangChain, or other orchestration and training frameworks.
? Contribute to the development of Trustworthy and Accountable AI systems
through rigorous research and innovative engineering solutions.
? Work flexibly across different aspects of the project, demonstrating a willingnessto learn and adapt to new
challenges and tasks outside of the traditional jobdescription.
? Drive fast iterative execution to achieve project milestones and deliverables in atimely and efficient manner.

# What We're Looking For

**Basic Qualifications:**

? Bachelor's or Master's degree in Computer Science, Electrical Engineering, or a related field.
? Strong experience with GPU computing and deep learning frameworks,
particularly Pytorch.
? In-depth knowledge of OS internals and the ability to work closely with hardware and software interfaces.
? Extensive experience with language modeling, specifically using transformers
and Large Language Models (LLMs), both prompting and fine-tuning.
? Familiarity with the LLM ecosystem, including vector databases, LangChain, or other orchestration frameworks.
? Proven track record of being results-oriented, with a high degree of flexibility and a bias towards impactful work.
? Excellent problem-solving skills and the ability to work independently or as part of a team.
? Strong desire to contribute to the field of machine learning research, with a
particular interest in Trustworthy and Accountable AI systems.

# Pay Range

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Minimum $63,600.00, Midpoint $79,500.00, Maximum $95,400.00

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**

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