

NLP Postdoctoral Research Fellow

at the Harvard-MIT Center for Regulatory Science at Harvard Medical School

The Harvard-MIT Center for Regulatory Science, in collaboration with the Machine Learning for Medical Language Lab at Boston Children's Hospital, is seeking post-doctoral research fellows to contribute to cutting edge research in the field of natural language processing for regulatory science applications. Regulatory science brings together a range of scientific disciplines to assess the quality, safety and efficacy of medical products regulated by agencies like the FDA. We are seeking candidates who can develop analytical tools to predict device safety and effectiveness using FDA pre-market and post-market databases. This is an opportunity to participate in high-impact work that will allow the regulatory agencies to analyze a range of medical device data to identify trends and safety signals, assess device performance across different device types, and analyze data-related workflows to inform process improvements in the future.

The Research Fellow will be expected to participate in international conferences and publish conference and journal papers, to propose new directions and projects, assist in preparing research proposals, and interact with graduate and undergraduate students.

Qualifications

- Candidates with a PhD degree in Computer Science, Math, Physics, Engineering, Statistics or a related technical field, with interest in biomedical applications, will be an excellent fit. However, we encourage candidates from a variety of backgrounds to apply, if their experience and interests match the project goals.
- Experience in research, including ability to plan and carry out research experiments and projects.
- Candidates with experience in the areas of machine learning, natural language processing/computational linguistics, and medical terminologies/ontologies are strongly encouraged to apply.
- Programming experience in computer programming languages (e.g., Python, Java, etc).
- Strong written and oral communication skills are required.
- Ability to work both independently and as a team player are required.

Application materials

- Cover letter/summary statement of personal objective and research interests
- CV
- Three letters of reference (will be requested of finalists)
- Sample publication with clearly stated individual contributions

Terms

The position is available immediately and is a 2-year fellowship term.

EEO Statement

We are an equal opportunity employer and all qualified applicants will receive considerations for employment without regard to race, color, religion, sex, national origin, disability status, protected veteran status, gender identity, sexual orientation, pregnancy and pregnancy-related conditions or any other characteristic protected by law.

Part of the Harvard Program in Therapeutic Science
At Harvard Medical School

How to apply

Interested candidates should email their application materials to:
Prof. Timothy Miller, PI Machine Learning for Medical Language Lab
tim.miller@gmail.com

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in Therapeutic Science



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