

Post-Doctoral Fellowship at the Harvard-MIT Center for Regulatory Science

Harvard Program in Therapeutic Science - Boston, Massachusetts

The Harvard Program in Therapeutic Science (HiTS) invites applications for a fellowship position at the Harvard-MIT Center for Regulatory Science (CRS). The fellow will join a cohort of highly motivated Regulatory Science Fellows, who conduct independent research across a range of disciplines and contribute to a thriving regulatory science community.

ABOUT THE FELLOWSHIP PROGRAM

The Harvard-MIT Center for Regulatory Science is a partnership between Harvard, MIT and the FDA, focused on building innovative approaches for the development and evaluation of medical products. Working across academia, industry, and government institutions, the Center promotes regulatory science through research and education programs, uniting stakeholders under a common mission: to promote optimal patient health outcomes through biomedical innovation and the availability of safe and effective diagnostics and treatments. The Regulatory Science [Fellowship Program](#) draws individuals with diverse expertise who are passionate about developing and applying novel methods in therapeutic science and contributing to the multi-disciplinary community of the Center.

For this position, the Fellow will work with faculty at Harvard Medical School, Harvard-Affiliated Hospitals or MIT, and benefit from interactions and collaborations with FDA scientists on a project-specific basis.

Unique aspects of this fellowship program include:

- Access to FDA scientists and collaborations on FDA projects
- Participation in an established multi-disciplinary community, enabling educational experiences and research activities outside field of expertise
- Access to multiple large healthcare centers, providing opportunities for research projects with direct medical applications

PROJECT OPPORTUNITIES

Regulatory science draws methods and approaches from multiple disciplines, providing opportunities for research activities and collaborations in multiple areas including (but not limited to):

- Conducting pharmacoepidemiological studies to develop new signal detection algorithms using data mining techniques in real-world healthcare datasets to identify adverse drug reactions
- Investigating policy and health economics questions in regulatory science, including the drivers for innovation in drug and medical device development
- Designing, developing and implementing machine learning and artificial intelligence algorithms for regulatory science applications

- Developing a comprehensive signal detection framework to predict device safety and effectiveness in premarket and postmarket databases
- Developing new approaches for understanding variations in individual patient experience using diverse data sets from clinical trials, electronic health records, and biometric monitoring devices

Basic Qualifications

- MD or PhD with training in a relevant field such as, computer science, biostatistics, epidemiology, regulatory law, or health policy and management

Application Procedure and Requirements

Applications will be accepted until the position is filled. Please include the following when applying:

- Curriculum vitae
- Cover letter and a 2-page description of relevant experience as a single PDF
- Project description jointly developed between the candidate and mentor(s)
- DOI or PMCID of up to three relevant publications

Selected candidates will be asked to provide letters of reference.

Position Description

Host Institution: Harvard Medical School

Appointing Department: Harvard Program in Therapeutic Science

Research Laboratory: TBD

Location: Boston, MA

Category: Scientist

Other responsibilities: no administrative or teaching obligations

Duration of fellowship: 2 years

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.

Contact

Florence Bourgeois, MD, MPH, CRS Fellowship Director
Harvard-MIT Center for Regulatory Science | Harvard Medical School

Florence.Bourgeois@childrens.harvard.edu