Job Description:

A faculty position at the Instructor/Assistant Professor level is open at the AXIS Center in the Department of Radiology at the Massachusetts General Hospital and Harvard Medical School. This position is open for an applicant who is interested in conducting state-of-art research in the design, development and use of X-ray imaging technologies. A specific area of interest that the applicant is expected to pursue is technology development for ultra-low dose X-ray imaging. Specific research topics, depending on the background of the applicant, can include low-dose computed tomography (CT), CT reconstruction algorithms, design and development of distributed X-ray sources and/or detectors, phase-contrast X-ray imaging, and dual-energy CT. Knowledge of clinical applications of these technologies is desirable but not mandatory.

The AXIS Center at MGH is devoted to X-ray and CT imaging technologies and their applications to human imaging, especially in the domain of neuro and emergency imaging. There are many collaborations that the successful candidate will be able to draw from in order to develop a successful research program. These include hardware experts, neuroscientists and physicians working and conducting cutting edge medical research in a highly collaborative environment. The center also has active collaborations with other major institutions in Boston including Brigham and Women’s Hospital, Massachusetts Institute of Technology, and Boston University.

Requirements:

The ideal applicant should have a PhD in Biomedical Engineering, Electrical Engineering, Physics, Computer Science, or a similar discipline. She/he should have a solid track record in conducting independent research during both her/his PhD and as a postdoctoral fellow in the fields of medical imaging physics, X-ray imaging, computed tomography, or a similar field. Any prior experience or expertise in X-ray hardware systems, especially X-ray source design, is a plus. Excellent interpersonal, organizational, and oral and written English communication skills are required.

Applicants should send a letter of interest with description of research, relevant experience, CV, and three letters of reference to Rajiv Gupta, MD, PhD (rgupta1@mgh.harvard.edu).

We are an equal opportunity employer and all qualified applicants will receive consideration 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. Women and minorities are encouraged to apply.