

Our research group seeks highly qualified applicants for the position of Postdoctoral Fellow. The position involves pursuing independent research in the field of medical image analysis with a special focus on tumor motion tracking. In modern Radiation Therapy, respiratory motion has posed a big challenge for precisely delivering radiation dose to the thoracic tumor while sparing the surrounding normal tissue. The successful candidate will contribute substantially to the development of fluoroscopic tracking techniques while implanted fiducial markers are not required. This Postdoctoral Fellowship provides an opportunity to engage in this emerging multi-disciplinary research area involving imaging, medical physics, computer algorithm development, and radiation treatment, and to work in an interdisciplinary team of faculty collaborators from Radiation Oncology and Electrical & Computer Engineering Departments.

The ideal candidate must be highly motivated and has a strong background in medical image analysis, computer vision, and computer algorithms. Prior work in the field of motion analysis, tracking, and recognition will be a preferable plus. The candidate is also expected to be willing to work in a cross-disciplinary environment. Good communication as well as writing skills is desirable. Applicants should hold a Ph.D. in Computer Science, Computer Engineering, or a closely related field.

- Duration: 12 months
- Availability: immediate
- Location: Dept. of Radiation Oncology, University of Iowa, Iowa City, Iowa, USA

Applications: please mail your resume to Prof. Xiaodong Wu (xiaodong-wu@uiowa.edu) including a list of two potential references.