Postdoctoral Positions in Artificial Intelligence for Radiation Oncology

Multiple postdoctoral positions in artificial intelligence for radiation oncology are available in the Department of Radiation Oncology and Biomedical Research Imaging Center (BRIC) at the University of North Carolina at Chapel Hill (UNC-Chapel Hill).

The successful candidate should have a strong background in Computer Science, Electrical Engineering, Biomedical Engineering, or Medical Physics, preferably with an emphasis on deep learning, image analysis, and big data. Experience in medical image segmentation, registration, and optimization for radiation therapy is highly desirable. Proficiency in programming (good command of LINUX, C and C++, and Python) is required.

The research will focus on developing and validating learning-based segmentation methods for multimodal pelvic images for radiation treatment. Another research focus is on the automatic detection and prediction of brain tumors based on MR images.

The successful candidates will be part of a multidisciplinary group including computer scientists, medical physicists, biostatisticians, and radiation oncologists. The new research will build upon the group's previous work on medical image analysis using artificial intelligence. If interested, please email resume and list of references to project advisors Dr. Jun Lian (jun_lian@med.unc.edu) and Dr. Pew-Thian Yap (ptyap@med.unc.edu).

UNC-Chapel Hill is one of the top public universities in the US. The cancer center and BRIC have a national reputation in cutting-edge research, clinical care, and training next-generation professionals. Chapel Hill, NC, routinely ranks as one of the best college towns and best places to live and raise a family in the United States.

Applicant Documents

Required Documents
1. Curriculum Vitae / Resume
2. List of References

Optional Documents
1. Cover Letter