Postdoctoral Scholar Position in Medical Physics

A postdoctoral training position is available in the laboratory of Dr. You Zhang, in the Medical Physics Division, Department of Radiation Oncology at UT Southwestern Medical Center to study medical physics, imaging, and radiation therapy. Our laboratory has several exciting projects related to:

- Developing analytical and AI-driven medical image reconstruction, registration, synthesis, and segmentation techniques to carry out high-quality tomographic imaging;
- Developing statistical and AI-driven models to represent phase-resolved, dynamic, and real-time CT/MR imaging and anatomical motion;
- Developing algorithms and workflows for image-guided adaptive radiation therapy, for both proton and photon treatments;
- Developing automatic quality assurance techniques for MR-guided adaptive radiotherapy using MR-LINACs.

Candidates must hold a recent Ph.D. degree in physics, electrical engineering, biomedical engineering, computer science, applied mathematics, or related disciplines. Strong programming skill is essential. Previous experience in programming (MATLAB/Python/C/C++) and image processing is preferred. Knowledge in machine/deep learning and high-performance computing is a plus but not required. No previous background in medical physics is required. The candidate should demonstrate excellent written and communication skills.

Successful candidates are also eligible to enroll in our CAMPEP-accredited didactic medical physics certificate program for free, whose curriculum covers the essential medical physics courses for individuals to enter the medical physics residency to become a professional medical physicist in the US.

Information on our postdoctoral training program, benefits, and a virtual tour can be found at http://www.utsouthwestern.edu/postdocs.

Interested individuals should send a CV, statement of interests, and a list of three references to:

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https://labs.utsouthwestern.edu/advanced-imaging-and-informatics-radiation-therapy-airt-lab
https://labs.utsouthwestern.edu/maia-lab
https://profiles.utsouthwestern.edu/profile/161901/you-zhang.html

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