



THE UNIVERSITY OF CHICAGO BIOLOGICAL SCIENCES

Postdoctoral Fellow Position Open in the Zhen Tian Lab.

Artificially Intelligent Radiation Treatment Planning

The [Department of Radiation & Cellular Oncology at the University of Chicago](#) is seeking one or more highly motivated postdoctoral research fellows to work on an NIH-funded project to develop advanced AI-driven treatment planning algorithms under the supervision of Principal Investigator Dr. Zhen Tian. The ideal candidate will work with Dr. Tian to develop advanced AI algorithms, design and evaluate experiments, process and analyze data, and prepare scientific manuscripts for publication. The initial appointment is for one year, and renewal is expected with good performance.

This is a full-time, mentored research position. The successful candidate will receive regular mentorship, evaluation, and training. They will be encouraged to disseminate research findings in major national conferences and peer-reviewed publications, and to seek extramural research funding. The postdoc will enhance the research independence and professional skills needed for pursuing a academic, industry, or clinical professional career in medical physics. Medical physicists are a well-paid and stable professional, and they are the only non-MD professional certified by the American Board of Medical Specialties (ABMS). Medical physicists collaborate with physicians closely in patient imaging, treatment planning and delivery, and quality assurance in routine clinical practice. More information about clinical medical physics as a career can be found at https://w3.aapm.org/medical_physicist/index.php.

Qualifications:

- Requires a Ph.D. degree in Medical Physics, Computer Science, Physics, Biomedical Engineering, Industrial Engineering, Mathematics, Electrical Engineering, or related fields
- Strong programming skills with Python, C/C++, and/or MATLAB are highly desired
- Experiences with deep/machine learning and/or solving mathematic optimization problems are preferred

- Must possess strong technical problem-solving skills
- Strong oral and written communication skills

Motivated candidates should submit a curriculum vitae and a statement of research goals to Dr. Tian at Zhen.Tian@uchospitals.edu. Compensation in the Biological Sciences Division follows the NIH NRSA Stipend scale. Additional information on benefits and being a postdoc in the University of Chicago Biological Sciences Division can be found at bsdpostdoc.uchicago.edu.