

Post-doctoral fellow - Radiation Oncology

Location

Center City, Philadelphia, PA

Full/Part Time

Full-Time

POST-DOCTORAL POSITION, DEPARTMENT OF RADIATION ONCOLOGY: Thomas Jefferson University is now accepting applications for a post-doctoral fellow in the Department of Radiation Oncology within the computational physics lab. The post-doctoral position is for research in the field of functional imaging, image processing, machine learning (ML), deep learning (DL), and clinical outcome modeling prediction.

This is an exciting opportunity to work on NCI-funded research on the incorporation of functional imaging into the radiation therapy and clinical care paradigm for cancer patients. The focus of the research involves working with patient data acquired on prospective clinical trials and large retrospective datasets. The research will aim to apply image processing, ML methods, DL methods, and clinical outcome modeling techniques to functional imaging to provide early imaging biomarkers to predict and mitigate treatment side-effects. The post-doctoral fellow will have an opportunity to collaborate with Thomas Jefferson faculty, national and international collaborators, and work alongside investigators at the NCI Quantitative Imaging Network.

Candidates must have a PhD in Medical Physics, Electrical Engineering, Physics, or a closely related field. The ideal candidate will be highly interested in an academic or data science career, have strong computational skills, and seek out a highly collaborative environment. Based on the interest of the post-doctoral fellow; opportunities will be provided to obtain clinical experience, treatment planning experience, as well as mentorship on clinical trial design and statistical modeling methods.

The Thomas Jefferson Medical Physics Division consists of 33 physicists, a computational physicist, 7 physics residents, and 6 post-doctoral research fellows. System-wide equipment incorporates a variety of vendors and includes Varian and Elekta Linacs, a ViewRay MRI-Linac, and Elekta's brachytherapy studio. Treatment planning is performed mainly with Eclipse and MOSAIQ is used for record and verify.

Thomas Jefferson University is an Equal Opportunity Employer. Jefferson values diversity and encourages applications from women, members of minority groups, LGBTQ individuals, disabled individuals, and veterans. Applicants should forward a curriculum vitae and a statement of interest to the physics administrative assistant, Julianne Johnson (Julianne.Johnson@jefferson.edu).

You can apply for the position by going to our careers pages at:

<https://jeffersonhealth.wd5.myworkdayjobs.com/en-US/ThomasJeffersonExternal>

Then search REQ-0008651