UNIVERSITY of MARYLAND
SCHOOL OF MEDICINE

Postdoctoral Fellow – Proton Radiotherapy and Prompt Gamma Imaging

Position Description:
The Department of Radiation Oncology at the University of Maryland School of Medicine is recruiting for a post-doctoral fellow position, to begin as early as January 2015, to carry out research and development on a prototype Prompt Gamma Imaging system for proton radiotherapy to be developed and clinically tested at the Maryland Proton Therapy Center (MPTC). The post-doctoral fellow work as part of an academic-industrial research partnership on the fabrication and clinical deployment of a Compton camera based in-vivo imaging and range verification system at the MPTC. Opportunities for clinical training will be available for the post-doctoral fellow. The successful candidate will work with other post-doctoral fellows, clinical medical physics residents, and graduate students in laboratory and clinical settings. It is expected that the successful candidate will publish their work in reputed journals. The position is for two years, with the possibility of extension for one additional year.

Qualifications:
Candidates for this position must have a Ph.D. in engineering, physics, medical physics, or a closely related physical science. Successful applicants must be highly motivated, able to work independently, and must have hands-on experience with radiation detection systems, signal processing, computer programming (C/C++, Matlab, Python, ROOT, and Labview). Experience with Monte Carlo (Geant4) modeling is a plus.

Facility and Equipment:
The state-of-the-art Maryland Proton Therapy Center is currently under construction and is scheduled to begin treating patients in 2015. The Medical Physics Division is currently staffed with 22 PhD faculty physicists, 11 dosimetrists, and 12 post-doctoral fellows and graduate students. We provide clinical services at the University of Maryland Medical Center and three community practice centers, including conformal radiotherapy, IMRT, cone-beam CT-guided radiotherapy, stereotactic radiosurgery/radiotherapy, brachytherapy and soon proton radiotherapy.

How to Apply:
Applications should include a cover letter, CV/resume and the names and contact information for three references. Individuals with a strong record of scholarly research and publication are encouraged to apply. The University of Maryland, Baltimore is an Equal Opportunity, Affirmative Action employer. Minorities, women, veterans and individuals with disabilities are encouraged to apply.

Interested applicants should mail or send electronically their application to:

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