



Washington University in St. Louis

SCHOOL OF MEDICINE

Department of Radiation Oncology

Division of Medical Physics

POSITION: RADIATION ONCOLOGY PHYSICS RESIDENTS (2)

LOCATION: Washington University Radiation Oncology Department, Barnes-Jewish Hospital, St. Louis, Missouri

We are seeking applications for two positions in our Radiation Oncology Physics Residency Program. The program provides two years of clinical training in radiation oncology physics to individuals with an M.S. or Ph.D. degree in physics or a closely related field. Minimally, the candidate must have the equivalent of an undergraduate minor in physics, and preference will be given to candidates who have coursework in medical physics, anatomy and biology. This 2-year training position begins July 1, 2015.

Please note: we are participating in the Common Application Program (<http://www.aapm.org/CAP>) and the Match Program (<https://natmatch.com/medphys>).

In 1997, our Physics Residency Program became the first accredited by CAMPEP. The Program's objective is to provide clinical training in radiation oncology physics that will prepare the graduate for board certification and a professional career in radiation oncology physics. Thirty five individuals have thus far completed the program and our graduates have established a strong record in obtaining board certification and initiating medical physics careers. The training involves full participation by the physics resident in the routine clinical activities under the supervision of the Physics Residency Program faculty, in addition to didactic lectures on radiation physics, dosimetry, imaging, biology, and oncology. Comprehensive training and experience is provided in the areas of clinical dosimetry, treatment planning, multi-modality imaging for planning, IGRT, IMRT, brachytherapy, calibration, quality assurance, special procedures, proton radiotherapy, MR-guided radiotherapy, radiation safety, and involvement in translational projects.

External beam delivery and treatment planning equipment include: 7 Varian accelerators (incl. Trilogy and True Beam), ViewRay MR-IGRT system (ViewRay, active since Jan, 2014), Protons (Mevion, active since Dec, 2013), Gamma Knife planning and delivery system, a Xofig x-ray unit, 2 Philips Brilliance CT-simulators (16-slice-large and 64-slice-small "bores"), 26 Pinnacle TP workstations, Varian Eclipse/Helios workstations, and 2 Varian HDR remote afterloading units. Specialized techniques include DMLC/SMLC-IMRT/VMAT delivery, linac and Gamma Knife stereotactic radio-surgery/therapy, total body irradiation, and image guidance provided by on-board x-ray imaging, portal imaging, video surface imaging, internal transponders, CBCT, and MRI systems. Rotations are provided within our HDR, LDR, prostate seed, and radiopharmaceutical programs, including image-guided interstitial, intracavitary, and surface implant planning and delivery. All training is conducted within our ACR-accredited, NCI Comprehensive Cancer Center Facility.

Further information can be obtained from:

<http://radonc.wustl.edu/physicsresidencyprogram.aspx>