

University of Iowa Therapeutic Physics Residency

Program overview

The Medical Physics Residency Program in the Department of Radiation Oncology at the University of Iowa Health Care Medical Center is accepting applications for two (2) two-year positions with a target start date of July 1, 2026. Our rigorous and rewarding CAMPEP-accredited training program is designed for candidates with master's or doctoral degrees who are interested in careers as clinical medical physicists in radiation oncology. The program provides structured training in all aspects of clinical medical physics with direct supervision by faculty physicists. Training occurs in a large, state-of-the-art radiation oncology center, with additional exposure to four community-based hospitals. The curriculum provides hands-on experience with progressive responsibility as the resident works to become fully independent by the completion of the program.

Our program includes a competitive salary, health insurance (stipend and benefits). Additionally, a generous book stipend is available along with travel to professional meetings. The maximum number of "Time Off" days a resident may take without requiring an extension in their residency training period shall not exceed an average of eight weeks (40 workdays) per year over the duration of the residency. This 40-day limit includes various types of leave including vacation, bereavement leave, parental leave, medical leave (sick time), caregiver leave, military commitments, and other leave as determined by the Program Director.

Successful candidates will be employed as house staff at the University of Iowa which is an at will position. However, all medical physics residents are afforded due process in the event of poor academic performance or negligent conduct. The teaching philosophy at the University of Iowa focuses on resident development and growth, with the ultimate goal of all residents achieving the highest level of competence and confidence in their clinical practice.

Facility and Equipment

The successful applicant will join fourteen faculty physicists, two other medical physics residents (four in total), seven dosimetrists, and two IT specialists in the growing Physics Division of the Department of Radiation Oncology. Our main facility has five external beam treatment units: an Elekta Unity (MR-Linac), a Gamma Knife Icon, and three Elekta Versa HD linear accelerators. Additional technologies include a 3 Tesla MRI scanner, 4D PET/CT scanner, mobile C-arm for fluoroscopy and kV cone beam CT, six degree-of-freedom robotic patient positioners, and multiple optical image guidance systems including the Vision RT system. Additional technologies are available for support in our four partner sites, including Varian and Elekta linear accelerators. Special procedures include MRI-guided adaptive radiotherapy, 4D imaging/treatment planning/delivery, frame-based and frameless stereotactic radiosurgery, stereotactic body radiation therapy, total body and total skin irradiation, and an active and diverse brachytherapy program (gynecological HDR, prostate HDR, and eye plaque implants). The Medical Physics Division is actively involved in translational research and collaboration opportunities for our residents are plentiful.

About University of Iowa Health Care Medical Center, Iowa City, IA

The University of Iowa Health Care Medical Center is a tertiary care, teaching, and research

center located in Iowa City, Iowa. With an 860-bed hospital serving a large Midwest region, we admit more than 32,800 inpatients, represent more than 200 outpatient clinics and care areas, and receive over 1 million clinic visits per year at our main campus as well as our community and outreach clinics. We are consistently named to U.S. News & World Report as one of "America's Best Hospitals". Iowa City, a Big Ten University town, offers a lively community with robust cultural, entertainment, and recreational activities, and is routinely ranked high on Livability's Best Places to Live.

Eligibility

- Graduation from a CAMPEP-accredited graduate program is required (Ph.D. or M.S.)
- Candidates should possess excellent verbal and written communication skills
- Applicants must be legally eligible to work in the United States

The University of Iowa is an equal opportunity/affirmative action employer. All qualified applicants are encouraged to apply and will receive consideration for employment free from discrimination on the basis of race, creed, color, national origin, age, sex, pregnancy, sexual orientation, gender identity, genetic information, religion, associational preference, status as a qualified individual with a disability, or status as a protected veteran.

Application Instructions

Please include the following:

- Personal Statement
- Copy of your CV
- University transcripts
- Two to three reference letters

NMSID: 11811

CAMPEP Graduate required: Yes

Number of openings: 2

Total number of residents: 4

Length of the program: 24 months

Degree Requirements: MS or PhD

Specialty: Radiation

Program Location: Iowa City, IA

Is visa assistance provided? Yes

Visa Conditions: Visa assistance may be available for highly qualified applicants. Applicants must be eligible to work in the US by the start date.