

Faculty Position
Therapeutic Medical Physics
Colorado State University

The Department of Environmental and Radiological Health Sciences (ERHS) invites applications for a tenure track faculty position at the assistant professor level in the area of **Therapeutic Medical Physics**. ERHS is a multidisciplinary department with graduate degree programs in Radiological Health Sciences (Diagnostic Imaging, Radiation Cancer Biology/Oncology, Health Physics), and Environmental Health Sciences (Industrial Hygiene, Toxicology, Epidemiology).



This position will be primarily assigned to the Radiation Oncology program of the ERHS department, located at the Veterinary Teaching Hospital. This program provides radiation therapy for companion animals utilizing a Varian™ Trilogy accelerator, Eclipse™ treatment planning and Aria™ record and verify system. The candidate can also participate in the Diagnostic imaging section. This section has a full complement of imaging equipment, including a Philips Big Bore PET/CT, MRI and MR spectroscopy, ultrasound, radiography, and nuclear medicine.

The Colorado State University Animal Cancer Center is world renown as a veterinary oncology center and as a leader in translational oncologic research. Outstanding opportunities for research and collaborations with the Animal Cancer Center are numerous. Spontaneous tumors in pets provide opportunities for the study of treatment response using stereotactic radiation therapy, respiratory gating, dynamic adaptive radiation therapy, IMRT alone or combined with other treatment modalities. This unique position requires an innovative physicist willing to help advance novel treatment approaches with translational implications. The Animal Cancer Center (ACC) treats over 2000 new tumors each year, including 200 patients treated with the Trilogy and 30 patients treated with radioactive iodine. The Animal Cancer Center houses research space and faculty positions including pharmacology, cancer genetics, oncologic pathology, immunology, and nutrition as well as clinical faculty in surgical and medical oncology. The ACC is affiliated with Neotrex, which is an enterprise to provide effective partnering with the biopharma industry, governments, investors, and the public to rapidly develop product opportunities.



The successful candidate will possess a PhD (or equivalent) from an accredited university. The candidate should be certified, or eligible for certification, in therapeutic medical physics. Training and/or certification in imaging physics is desirable but not required. Additional consideration will be given to individuals with academic teaching experience in medical physics. The candidate will participate in the Department's effort to establish a CAMPEP accredited graduate program in therapeutic medical physics that will complement the existing ABET accredited graduate program in Health Physics.



The candidate is expected to contribute to the graduate level teaching of subjects in Radiation therapy physics, Medical Imaging Physics, and Radiological Physics and Dosimetry. The candidate will also be expected to interact with veterinary residents and graduate students in Radiological Health Sciences.



The successful candidate will be expected to pursue and ultimately develop an externally funded research program in an area of basic or applied medical physics. Excellent research opportunities exist within the university and regional medical centers. Association with CSU and the ACC will offer exciting and unique opportunities in translational (animal to human) research.

Clinical service is expected and duties will include playing an integral role in treatment planning for clinical radiation therapy of animal tumors with IMRT, Stereotactic Radiation therapy, 3-D CRT and treatment quality assurance. The candidate will be responsible for managing QA for the Trilogy and related equipment.

Colorado State University is in Ft. Collins Colorado, a city regularly recognized in national surveys as an outstanding place to reside. It is located along the front range of the Rocky Mountains with a population of approximately 150,000 residents. The climate is multi-seasonal with over 300 days of sunshine per year. The public school system is recognized as one of the finest in Colorado. There is a broad range of cultural programs and unprecedented opportunities for recreation in the national parks and forests just a short distance away.

Candidates should submit a curriculum vitae; a statement of professional goals, including research and teaching interests, as well as the name, address, phone number, and email address of three references.

Applications will be accepted until the position is filled. The search committee will begin reviewing completed applications on December 1, 2010. All applications should be forwarded to:

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Colorado State University is an equal opportunity/affirmative action employer and complies with all federal and Colorado State laws, regulations, and executive orders regarding affirmative action requirements in all programs. [The Office of Equal Opportunity and Diversity](#) is located in 101 Student Services Building. In order to assist Colorado State University in meeting its affirmative action responsibilities, ethnic minorities, women and other protected class members are encouraged to apply and to so identify themselves.

Colorado State University is committed to providing a safe and productive learning and living community. To achieve that goal, we conduct background investigations for all final candidates being considered for employment. Background checks may include, but are not limited to, criminal history, national sex offender and motor vehicle history.