The Department of Environmental and Radiological Health Sciences (ERHS) invites applications for a tenure track faculty position at the assistant or associate 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. A Xoft electronic brachytherapy system is also in use for the treatment of both large and small animals. The candidate is also welcome to 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, fluoroscopy, ultrasound, digital radiography, and nuclear medicine.

The Colorado State University Flint Animal Cancer Center (FACC) is world renowned as a veterinary oncology center and as a leader in translational oncologic research. Outstanding opportunities for research and collaborations with faculty in 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 and independent physicist willing to help advance novel treatment approaches with translational implications as well as support clinical and research operations. The FACC treats over 1800 new cancer patients each year, including 300 patients treated with the Trilogy and 30 patients treated with radioactive iodine. The FACC houses research space and faculty in many disciplines including pharmacology, cancer genetics, oncologic pathology, immunology, and nutrition as well as clinical faculty in surgical and medical oncology. The FACC 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 also have an opportunity to engage in academic collaborations with members of the University of Colorado Department of Radiation Oncology clinicians and Medical Physics group. There are numerous ongoing and planned future projects between the two campuses.

The recent establishment of strong collaborative ties with the National Institute of Radiological Sciences, Japan, will provide unprecedented opportunities for the study of therapeutic applications of heavy ion beams.

The successful candidate will possess a PhD (or equivalent) from an accredited university. The candidate should be board 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 play a significant role 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 will lead the expansion of the medical physics program to include diagnostic imaging and training in therapeutic applications of heavy ion beams.

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 guide and mentor veterinary residents as well as graduate students in Radiological Health Sciences conducting research in fulfillment of their program requirements.

The successful candidate will be expected to 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 FACC will offer exciting and unique opportunities in translational (animal to human) research.

The ability to advance the department’s commitment to diversity and inclusion through research, teaching and outreach with relevant programs, goals and activities is encouraged.

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. The candidate will assume responsibilities related to radiation safety. Effort distribution in teaching, research and service will be based on the qualifications of the candidate.

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 electronically a curriculum vitae; 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 Friday, February 14, 2014. Apply by that date to ensure full consideration. Applications should be sent electronically to Julie.Asmus@colostate.edu.

Colorado State University does not discriminate on the basis of race, age, color, religion, national origin or ancestry, sex, gender, disability, veteran status, genetic information, sexual orientation, or gender identity or expression. Colorado State University is an equal opportunity/equal access/affirmative action employer fully committed to achieving a diverse workforce and complies with all Federal and Colorado State laws, regulations, and executive orders regarding non-discrimination and affirmative action. The Office of Equal Opportunity is located in 101 Student Services.

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 search and motor vehicle history.