

McMaster University

Medical Physics & Applied Radiation Sciences - Tenure-Track Faculty Position

McMaster University invites applications for a tenure-track appointment at the assistant, associate or full professor level in the Unit for Medical Physics and Applied Radiation Sciences in the Faculty of Science. The position is targeted to begin on September 1, 2004. Candidates should possess a PhD and have demonstrated an excellent research record and aptitude to teach. The ideal candidate will be able to teach in the area of the fundamentals of radiation physics, with particular emphasis on radiation transport and radiation dosimetry. She/he would be expected to contribute to graduate and undergraduate programmes in Medical Physics, Health Physics and Medical Radiation Sciences through teaching, attracting research funding and mentoring research students.

McMaster University offers a unique radiation research environment, supported by the McMaster Institute of Applied Radiation Sciences. Facilities at McMaster include a research reactor and an accelerator laboratory. In addition, the Juravinski Cancer Centre has recently undergone a major expansion. Existing research fields within the Unit include nuclear and atomic techniques used for body composition studies; the role of DNA damage and DNA repair processes in carcinogenesis and in the response of tumour cells to radiotherapy and chemotherapy; understanding risks of low doses and low dose rates of ionizing radiation in human and non-human biota using a combination of molecular cytogenetics and microbeams; the cellular and molecular basis of photodynamic therapy; laser and light propagation in tissue for photodynamic therapy and tissue characterization; radiation geochronology; novel methods of imaging bone architecture and joint structure non-invasively; and structural and functional imaging, particularly for neurological, cardiac and neuroscience studies.

Applicants should describe how they would expect their research to prosper at McMaster, taking into account existing research strengths and opportunities. Collaboration with Unit faculty is encouraged; there is a strong history of collaboration between the University, Hamilton Health Sciences Corporation and the Juravinski Cancer Centre.

All qualified candidates are encouraged to apply; however, Canadian citizens and permanent residents will be considered first for this position. McMaster University is strongly committed to employment equity within its community and to recruiting a diverse faculty and staff. The University encourages applications from all qualified candidates, including women, members of visible minorities, Aboriginal persons, members of sexual minorities and persons with disabilities.

Applications, including a statement of research interests and teaching philosophy, together with letters from three referees should be sent by May 14, 2004 to Dr Fiona McNeill, Chair, The Unit for Medical Physics and Applied Radiation Sciences, NRB-122, McMaster University, Hamilton, Ontario, L8S 4K1, Canada. Telephone (1) 905 525 9140 ext 24182, FAX (1) 905 522 5982, contact e-mail: malarek@mcmaster.ca. Further information can be found at: <http://www.science.mcmaster.ca/medphys>.