



**Department of Physics and Astronomy  
Faculty of Science  
University of Manitoba  
Winnipeg, Manitoba, Canada**

**Assistant or Associate Professor in Physics as Applied to Medicine  
Position # 27779**

The Department of Physics and Astronomy invites applications for a full-time, tenure-track position at the Assistant or Associate Professor level, commencing July 1, 2022, or on a date mutually agreed upon. Outstanding candidates in any area of physics applied to medicine will be considered with particular emphasis on applicants who will complement or extend the Department's strengths. Salary and rank will be commensurate with experience and qualifications.

The successful candidate will have a Ph.D. in Physics, Medical Physics, Engineering or a related field and will have substantive experience in the application of physics to medicine, including device development, clinical trials and the application of Machine Learning to diagnosis and therapy. Duties will include undergraduate and graduate teaching, including the development and delivery of Medical Physics courses in a CAMPEP accredited program, and the integration of an undergraduate Medical Physics stream within an anticipated Applied Physics program, research and graduate student supervision, and service-related activities. The successful candidate will have a track record of high-quality scholarly research leading to peer-assessed publications; will either have or will demonstrate the potential to establish an independent, innovative, scholarly, externally fundable research program; will have demonstrated strength in or strong potential for outstanding teaching contributions; and will exhibit evidence of the ability to work in a collaborative environment. The ideal candidate will be certified (or eligible for certification) as a Medical Physicist. To enrich our Department and create role models for a diverse population of students, we particularly invite applications from those who can support and enhance our diversity, including women, Indigenous Peoples, persons with disabilities and racialized persons, and those committed to a diverse environment.

The Department currently has 22 full-time tenured and tenure track faculty members and two Instructors. It offers a full range of undergraduate and graduate programs in Subatomic Physics, Condensed Matter Physics, Astronomy and Astrophysics and Biological and Medical Physics. The Department has a well-established and equipped research facility, including a new 230 m<sup>2</sup> lab for medical physics research and development, in-house high-performance computing clusters and advanced 3-D printing capabilities. We are supported by strong research links with other University of Manitoba departments, including Electrical and Computer Engineering, Biological Sciences, Radiology, Medicine, Biosystems Engineering,

and the Manitoba Institute for Materials. The Department also has strong links with CancerCare Manitoba, the CancerCare Manitoba Research Institute, and the Winnipeg Health Sciences Center. Further information about the Department can be obtained from [www.sci.umanitoba.ca/ Physics and Astronomy](http://www.sci.umanitoba.ca/Physics%20and%20Astronomy) . Winnipeg is the largest city in the Province of Manitoba and has a rich cultural environment, including symphony, opera, dance, theatre, and ethnic festivals. The region provides ample opportunities for outdoor recreation in all seasons and has been identified by Time magazine as one of 2021's "World's Greatest Places." Learn more about Winnipeg at [winnipeg.ca](http://winnipeg.ca).

The University of Manitoba is strongly committed to equity and diversity within its community and especially welcomes applications from women, racialized persons, Indigenous peoples, persons with disabilities, persons of all sexual orientations and gender identities, and others who may contribute to the further diversification of ideas. All qualified candidates are encouraged to apply; however, Canadian citizens and permanent residents will be given priority.

If you require accommodation supports during the recruitment process, please contact [UM.Accommodation@umanitoba.ca](mailto:UM.Accommodation@umanitoba.ca) or 204-474-7195. Please note this contact information is for accommodation reasons only.

Applications including a curriculum vitae, a description of teaching philosophy, a summary of research interests, a three-page research plan and contact information for three references should be sent to [MedPhys@physics.umanitoba.ca](mailto:MedPhys@physics.umanitoba.ca) (PDF files preferred). Please ensure to specify position number **27779** in the application. For further information, contact the Search Committee Chair at [Robert.Stamps@umanitoba.ca](mailto:Robert.Stamps@umanitoba.ca) . The closing date for receipt of applications is 31 December, 2021.

Application materials, including letters of reference, will be handled in accordance with the *Freedom of Information and Protection of Privacy Act*. Please note that curricula vitae may be provided to participating members of the search process.