

Tenure Track Position in Physics Pedagogy

Located in downtown Toronto, the largest and most culturally diverse city in Canada and on the territory of the *Anishinaabeg, Haudenosaunee and the Wendat Peoples*, the [Department of Physics](#) in the [Faculty of Science](#) at [Ryerson University](#) invites applications for a tenure track position at the rank of Assistant Professor in the area of Physics Pedagogy. The appointment shall be effective 1 July 2021, subject to final budgetary approval.

This position is an integral part of the Faculty of Science Strategic Plan to create a world-class group in Science Education Research, beginning with a cluster of four positions, one in each of Computer Science, Chemistry/Biology, Mathematics and Physics departments. In addition to being part of the new cluster in Science Education, the successful applicant will join the present strong core of physicists in the Department of Physics with research interests in Medical Physics and Complex Systems. With this position, the Department is expanding into Physics Education Research (PER). As such, we invite applicants with expertise in Physics Education Research who have demonstrated exceptional levels of excellence in teaching Science courses as well as the development of novel undergraduate laboratories and curricula based on present day PER research.

The successful candidate will: contribute to our undergraduate and graduate programs through teaching [physics and/or astronomy courses at the undergraduate and/or graduate levels], mentor and supervise undergraduate and graduate students; contribute to the development of curricula and course design; develop a strong and innovative research program in Physics Education Research that is externally funded and that produces cutting-edge, high quality results; and engage in the life of the Department, Faculty and University through service activities while maintaining an inclusive, equitable, and collegial work environment across all activities.

Candidates must hold a Ph.D. in physics or a closely related field. In addition, the successful candidate must present evidence of:

- strong emerging scholarly research and/or creative activity that is current, innovative and impactful as evidenced by, but not limited to, peer-reviewed publications, working papers, public policy contributions, presentations at academic conferences, community and professional work, grants, research related awards and other writing or creative production that contributes to the visibility and prominence of the discipline;
- practical experience in research, applications and development of material related to physics education research;
- meaningful engagement of undergraduate and graduate students in their proposed research;
- demonstrated potential for teaching excellence at all levels of the undergraduate curriculum, as evidenced by a teaching dossier that includes a teaching philosophy statement, experience with course and curriculum review and/or development, examples of best practices in pedagogy, including familiarity with a variety of contemporary, research-based teaching practices techniques, and emerging technologies for instruction, effective use of classroom technology and any experience with experiential learning, sample syllabi, strong teaching evaluations, teaching awards, and other relevant achievements in teaching;
- strong communication and expository skills and a demonstrated ability to supervise undergraduate students;
- enthusiasm about teaching physics and/or astronomy classes at the undergraduate and/or graduate level, including general education courses and physics majors' courses;
- endorsements/recommendations by recognized referees;
- experience and interest in upper-division PER and/or educational technologies – as they apply to online/remote teaching and learning as well as the development of online (virtual) undergraduate laboratories;
- commitment to our values of Equity, Diversity, and Inclusion as it pertains to service, teaching, and scholarly research or creative activities, including a demonstrated ability to make learning accessible and inclusive for a diverse student population; and

- an ability to contribute to the life of the Department, Faculty and the University through collegial service.

This position falls under the jurisdiction of the Ryerson Faculty Association (RFA) (www.rfanet.ca). The RFA collective agreement can be viewed [here](#) and a summary of RFA benefits can be found [here](#).

Ryerson University

Serving a highly diverse student population of over 45,000, with 100+ [undergraduate](#) and [graduate](#) programs built on the integration of theoretical and practical learning and distinguished by a professionally focussed curriculum with a strong emphasis on excellence in teaching, research and creative activities, [Ryerson](#) is a vibrant, urban university known for its culture of innovation, entrepreneurship, community engagement and city-building through its award-winning architecture.

Department of Physics

The Department of Physics consists of 18 faculty members, 7 staff, 8 postdoctoral fellows and 58 graduate students. The Department offers undergraduate (Honours B.Sc.) and graduate (M.Sc. and Ph.D.) programs. Our faculty prides itself on the quality, breadth and depth of its research in a Department recognized among the top in Canada in the areas of Medical Physics and Complex Systems. We are also committed to excellence in teaching, including the application and research of novel physics education pedagogies. We seek a candidate that will enhance our teaching strengths as well as augment our existing research in Physics/Science Education, bringing innovative and diverse perspectives and experiences.

Working at Ryerson

At the intersection of mind and action, Ryerson is on a transformative path to become Canada's leading comprehensive innovation university. At Ryerson and within our department/school, we firmly believe that equity, diversity and inclusion are integral to this path; our current [academic plan](#) outlines each as core values and we work to embed them in all that we do.

Dedicated to a people first culture, Ryerson is proud to have been selected as one of Canada's Best Diversity Employers and a Greater Toronto's Top Employer. We invite you to explore the range of [benefits](#) and [supports](#) available to faculty and their family, including access to our diverse [faculty and staff networks](#).

Visit us on Twitter: [@RyersonU](#), [@RyersonHR](#), [@RyersonVPFA](#) and [@RyersonECI](#) and our [LinkedIn company page](#).

Ryerson is committed to accessibility for persons with disabilities. To find out more about legal and policy obligations please visit the [accessibility](#) and [Human Rights](#) websites.

Ryerson University welcomes those who have demonstrated a commitment to upholding the values of equity, diversity, and inclusion and will assist us to expand our capacity for diversity in the broadest sense. In addition, to correct the conditions of disadvantage in employment in Canada, we encourage applications from members of groups that have been historically disadvantaged and marginalized, including First Nations, Métis and Inuit peoples, Indigenous peoples of North America, Black-identified persons, other racialized persons, persons with disabilities, and those who identify as women and/or 2SLGBTQ+.

How to Apply

Applicants must submit their application online via the [Faculty Recruitment Portal](#) (click on "Start Application Process" to begin) by February 15, 2021. The application must contain the following:

- a letter of application;
- a statement of EDI philosophy and how this is part of the teaching and research activities
- a curriculum vitae;
- a detailed Physics Education Research plan as well as a plan to modernize and enhance the teaching modalities and facilities in the Department, of no more than 5 pages;
- a teaching dossier including: statement of teaching philosophy, evidence of teaching experience, teaching evaluations if available.

In addition, the applicant must arrange to have three reference letters submitted directly to the Physics Department at Ryerson University to: physics.pedagogy@ryerson.ca. The referees might be contacted for a follow up if the candidate is considered for the position.

Please note that all qualified candidates are encouraged to apply; however, applications from Canadians and permanent residents will be given priority, in accordance with Canadian immigration regulations. **Candidates must therefore indicate in their application if they are a permanent resident or citizen of Canada.**

Contacts

Any confidential inquiries can be directed to the hiring committee Chair, Dr. Pedro Goldman, at goldman@ryerson.ca. We thank applicants in advance for their applications; however only applicants under consideration will be contacted about their candidacy.

Indigenous candidates who would like to learn more about working at Ryerson University are welcome to contact Tracey King, Indigenous Human Resources Lead at t26king@ryerson.ca.

Black identified candidates who wish to learn more about working at Ryerson University are welcome to contact Shurla Charles-Forbes, [Black Faculty & Staff Community Network](#) at bfscn@ryerson.ca.

For any confidential accommodation needs and/or inquiries regarding accessing the Faculty Recruitment Portal, please contact Michelle Gomes, HR Advisor, at michelle.gomes@ryerson.ca