

Tenure Track Tier 2 Canada Research Chair (CRC) Faculty Position in Biomedical Engineering

FEAS, Electrical & Computer Eng

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Located in the heart of Downtown Toronto, the largest and most culturally diverse city in Canada, Ryerson University is known for innovative programs built on the integration of theoretical and practical learning. Our undergraduate and graduate programs are distinguished by a professionally focused curriculum with a strong emphasis on excellence in teaching, scholarly, research and creative activities. In 2017, Ryerson engineering was ranked among the Top 10 engineering schools in Canada by *Maclean's*.

Biomedical Engineering is among the most dynamic, multi-disciplinary, and rapidly evolving areas that plays a significant role in expanding the capabilities of healthcare and the ways it will be delivered in the future. The BME program at Ryerson University is housed in, and administrated by, the Department of Electrical and Computer Engineering and is exhibiting continued growth. Ryerson's B.Eng. The BME program was the first and only standalone undergraduate Biomedical Engineering program in English Canada at the time of its inception in 2008, and remains the first one to be fully accredited by the Canadian Engineering Accreditation Board. Being housed in a strategic downtown campus at Ryerson University, the BME program benefits from the proximity to Toronto's Medical Discovery District and seven world-class hospitals.

Position Requirements:

The Department of Electrical and Computer Engineering in the Faculty of Engineering and Architectural Science at Ryerson University invites applications for a full-time tenure track position in *Biomedical Engineering*, at the **Assistant Professor** level, beginning July 1, 2018, subject to final budgetary approval. Candidates **must** have a Ph.D. degree in Biomedical Engineering (with Electrical Engineering focus) or Ph.D. degree in Electrical Engineering (with Biomedical Engineering focus) or Ph.D. degree in related disciplines. In addition, the following are expectations of an ideal candidate for the position:

- Demonstrate sound expertise in one or more of the following related areas of BME specializations: Bio-robotics, Bioinformatics, Medical Devices, Physiological Modeling, Medical Imaging Instrumentation;
- Demonstrate strong experience in undergraduate course development and teaching. Demonstrate the ability to effectively teach key fundamental and applied BME program courses;
- Strong BME research profile with evidence of peer reviewed publications/contributions and external grants (and/or participation in group grants and/or ability to attract multi-center grants). Demonstrate the ability to establish and maintain an independent, externally funded research program;
- Evidence of Clinical/Health research collaborations or strong potential/ability to attract Clinical/Health collaborative initiatives;
- Evidence of strong undergraduate guidance in Design and Innovation (Industrial experience or previous experience of guiding students and researchers will be a definite asset);
- Demonstrated (or the ability to participate in) leadership activities in collegial internal and external service.

Furthermore, to be eligible for strong consideration as a **Tier 2 Canada Research Chair (CRC)** the successful candidate should:

- be an excellent emerging researcher who has demonstrated exceptional research creativity;
- have demonstrated the potential to achieve international recognition in his/her field;
- be proposing an original, innovative research program of high quality;
- have the potential to attract excellent trainees, students and world class collaborators.

Canada Research Chairs are established as part of a national strategy to foster research excellence. The nominee must meet the requirements for the position of Tier 2 Chair as defined by the CRC program. Tier 2 CRC Chairs are intended for exceptional emerging scholars, i.e., the candidate must be an active researcher in their field for fewer than 10 years from their highest degree, at the time of nomination. Applicants who are more than 10 years from having earned their highest degree (and where career breaks exist, such as maternity, parental or extended sick leave, clinical training, etc.) may have their eligibility for a Tier 2 chair assessed through the program's [Tier 2 justification process](#). Please contact the research office by sending an email to vpri@ryerson.ca with "Tier 2 Justification" in the title. For full program information, including further details on eligibility criteria, please consult the CRC website: <http://www.chairs-chaires.gc.ca/>.

Professional Engineering (P.Eng.) registration in the province of Ontario (or eligibility to register) is a necessary condition for the appointment. Please clearly indicate your status or eligibility. Candidates must also have a demonstrated commitment to upholding the values of equity, diversity, and inclusion as it pertains to service, teaching, and scholarly, research or creative activities.

Department of Electrical & Computer Engineering

The Department currently has 43 full-time faculty members, 14 support staff members, over 1100 undergraduate students pursuing bachelor of engineering degrees in Electrical Engineering, Computer Engineering, and Biomedical Engineering, as well as over 300 graduate students enrolled in M.A.Sc., M.Eng., and Ph.D. programs. The faculty members of the Department are engaged in research over a broad spectrum of electrical, computer, and biomedical engineering that includes the following: digital signal processing, multimedia, integrated circuits, microsystems, biomedical signal processing, bioinformatics, control systems, robotics, computer architecture, computer networks, digital communications, embedded systems, electromagnetics, wireless sensor networks, wireless and optical communications, power electronics and power systems. The 2017 Performance Ranking of Scientific Papers for World Universities (also known as NTU Ranking) ranked Ryerson's Electrical & Computer Engineering Department among the Top 10 in Canada and 148th in the world, with citation impact ranking 4th in Canada and 115th in the world. This is a testament to the caliber of our faculty. Specifically, the department is home to three fellows of the Canadian Academy of Engineering, two IEEE Fellows, one 3M Teaching Fellow, two NSERC Industrial Research Chair, three Canada Research Chairs, and many other faculty members who have distinguished themselves with various prestigious awards including Premier Research Excellence awards, Ryerson Research Chair awards, FEAS research/teaching excellence awards and investments/grants from CFI, MRI, OCE, NSERC, CIHR, CHRP, and industry. More information can be found at: <http://www.ee.ryerson.ca>.

This position falls under the jurisdiction of the Ryerson Faculty Association (RFA) (www.rfanet.ca). The RFA collective agreement can be viewed at: http://www.ryerson.ca/content/dam/faculty-affairs/rfa-collective-agreement/RFA_CA_2015_to_2018.pdf and a full summary of RFA benefits can be found at: <http://www.ryerson.ca/hr/employee-resources/>

At the intersection of mind and action, Ryerson is on a transformative path to become Canada's leading comprehensive innovation university. Integral to this path is the placement of equity, diversity and inclusion as fundamental to our institutional culture. Our current [academic plan](#) outlines each as core values and we work to embed them in all that we do.

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, Metis and Inuit peoples, Indigenous peoples of North America, racialized persons, persons with disabilities, and those who identify as women and/or 2SLGBTQ+.

For this reason, by separate communication we will be inviting all applicants to voluntarily complete an online Diversity Self-ID questionnaire. The information collected will remain confidential; the communication will provide details on who will have access to the data and how it will be used. The information collected will remain confidential; the communication will provide details on who will have access to the data and how it will be used.

As an employer, we are working towards a people first culture and are proud to have been selected as one of Canada's Best Diversity Employers and a Greater Toronto's Top Employer for both 2015 and 2016. To learn more about our work environment, colleagues, leaders, students and innovative educational environment,

visit www.ryerson.ca, check out [@RyersonU](https://twitter.com/RyersonU), [@RyersonHR](https://twitter.com/RyersonHR) and [@RyersonEDI](https://twitter.com/RyersonEDI) on Twitter, and visit our [LinkedIn company page](#).

How to Apply

Please note that all qualified candidates are encouraged to apply; however, applications from Canadians and permanent residents will be given priority. All qualified candidates are invited to apply by **January 15, 2018**. The application must contain the following: a letter of application, a curriculum vitae, 3 recent research publications, **a description of your proposed CRC research**, teaching and research philosophies, results of teaching evaluations (or equivalent evidence, such as a teaching dossier), and the names of at least 3 individuals who may be contacted for reference letters.

Ryerson recognizes that scholars have varying career paths and that career interruptions can be part of an excellent academic record. Candidates are encouraged to provide any relevant information about their experience and/or career interruptions to allow for a fair assessment of their application. Search committee members have been instructed to give careful consideration to diverse experiences and knowledges, and be sensitive to the impact of career interruptions in their assessments.

Please CLEARLY indicate in your application if you are a Canadian Citizen or a permanent resident of Canada. Applications must be submitted via our departmental hiring site: hire.ee.ryerson.ca.



Ryerson University is strongly committed to fostering diversity within our community. We welcome those who would contribute to the further diversification of our staff, our faculty and its scholarship including, but not limited to, women, visible minorities, Aboriginal people, persons with disabilities, and persons of any sexual orientation or gender identity. Please note that all qualified candidates are encouraged to apply but applications from Canadians and permanent residents will be given priority.