



The Engineering Institute of Canada

2020 Award Citation

EIC Fellow



Craig Simmons

Nominated by the Canadian Society for Mechanical Engineering

Professor Craig Simmons has an outstanding record of innovation and leadership in biomedical engineering research and education. As the University of Toronto Distinguished Professor of Mechanobiology, his research in cardiovascular engineering has revolutionized our understanding of the critical role of biomechanics in heart valve disease and regeneration. He is also widely recognized for inventing novel microfluidic technologies that have been commercialized to improve drug discovery. As a Scientific Director in the Ted Rogers Centre for Heart Research, Craig established the U of T Translational Biology & Engineering Program, a bold initiative that integrates over 100 researchers from engineering and medicine to discover and translate innovations to detect and treat heart disease.

As a teacher, mentor, and textbook author, Professor Simmons has led several educational initiatives in biomedical engineering at U of T, founding a nationally-unique curriculum in Biomedical Systems Engineering and an NSERC-funded graduate training program in microfluidics and cardiovascular health.

He is a Fellow of CSME and the American Institute of Biological and Medical Engineering, and has received several awards for research and teaching, including the Canada Research Chair in Mechanobiology, the Ontario Professional Engineers R&D Medal, and the U of Toronto Northrop Frye Award for integrating teaching and research.

Ladies and gentlemen, and Mr. President, please welcome Craig Simmons as a Fellow of the Engineering Institute of Canada.