The Engineering Institute of Canada

2021 Award Citation

EIC Fellow

Karim Sallaudin Karim

Nominated by IEEE Canada

Karim Sallaudin Karim is a founder and Chief Technology Officer of KA Imaging, a Professor in the University of Waterloo's Department of Electrical and Computer Engineering, and the Executive Director of the Centre for Bioengineering and Biotechnology at Waterloo. Karim has pioneered innovative X-ray detector research over two decades and led the commercialization effort via a spinoff company he founded called KA Imaging. KA Imaging was recognized as a Top 20 start-up in Canada by the TSX Venture Exchange and a Top 10 scale-up company by the Lazaridis Institute.

Karim's research led to the creation of the world's first portable, large area, dual energy X-ray detector. This X-ray detector is now sold to hospitals and clinics globally as a replacement for black and white X-ray detectors because its accuracy enables early disease detection at point of care and is being used in Toronto for COVID-19 pneumonia detection in immune compromised cancer patients. He also proposed the development of a new IEC international standard on dual energy medical X-ray devices, is a Senior Member of the IEEE and has been a Distinguished Lecturer of the IEEE Electron Devices Society for a decade.

Karim's work on medical X-ray detectors received the Grand Challenges Canada Global Health Challenges Translation to Scale Award and he was recognized as a Rising Star in Global Health.

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