

The 19th U.S.–Korea Forum on Nanotechnology

Professor Douglas J. Weber

Department of Mechanical Engineering and the
Neuroscience Institute, Carnegie Mellon
University, United States of America



Doug Weber is the Akhtar and Bhutta Professor of Mechanical Engineering and Neuroscience at Carnegie Mellon University. Dr. Weber received a Ph.D. in Bioengineering from Arizona State University and completed post-doctoral training in the Centre for Neuroscience at the University of Alberta. His primary research area is Neural Engineering, combining fundamental neuroscience and medical device engineering to understand the neural basis of sensory perception, motor control, and neuroplasticity and drive the development of neurotechnologies for restoring sensorimotor functions in patients. A founding member of DARPA's Biological Technologies Office, Weber created and managed a portfolio of neurotechnology research programs to support the White House BRAIN initiative, launched by President Obama in 2013. At CMU, he is co-director of the NeuroMechatronics Laboratory, which is a highly multidisciplinary group of students, post-docs and faculty working on projects spanning fundamental and applied studies in animals and translational research in humans. He is also a founder and Chief Technology Officer of Reach Neuro, Inc., a medical device startup developing a novel therapy for restoring arm and hand function for people with chronic hemiplegia post-stroke.