



**Edgar Ramos Vieira, PT, MSc, PhD**  
**Ergonomics and Research Consultant**

Edgar is pursuing an academic and consulting career in prevention of musculoskeletal disorders including work-related low back disorders, patient falls, health care worker and patient safety. He is an expert in ergonomics/human factors, preventive physical therapy, physical demands analysis (PDA), root cause analysis (RCA), proactive risk assessments (PRA)/failure mode and effects analysis (FMEA), and orthopedic and postural physical therapy.

He received his Bachelor of Science degree in Physical Therapy in 1999 from the Methodist University of Piracicaba - SP, Brazil. During his undergrad, he conducted two scientific initiation projects involving ergonomic evaluations and interventions in the university library and physical therapy teaching clinic. In 2002, he received his Master of Science degree in Physical Therapy from the Federal University of Sao Carlos - SP, Brazil. During his M.Sc., he developed and tested devices at the Ergonomics and Preventive Physical Therapy Laboratory to measure back movement and posture. In 2006, Edgar completed his Ph.D. at the Ergonomics Research Laboratory, University of Alberta (UofA), Edmonton - AB, Canada. Edgar's Ph.D. research developed, tested, and presented a methodology to control work-related low back disorders (WLBD) in jobs with risk factors. It involved identifying, evaluating, and suggesting modifications to jobs with high incidence of WLBD in two steel manufacturing companies and one acute care teaching hospital. This research included an epidemiological and questionnaire study, a functional capacity evaluation, a physical demands analysis, and recommendation of modifications and training programs to reduce the risk of WLBD. During his PhD, he also collaborated in the research project "Back Injuries in Heavy Industry: the UBC Back Study" from the University of British Columbia. After his PhD, Edgar was hired as a sessional instructor at the Faculty of Rehabilitation Medicine, UofA, and received a post-doctoral fellowship from the International Institute for Qualitative Methodology, Faculty of Nursing – UofA, to conduct a research project on "Preventing Patient Falls and Musculoskeletal Injuries in Health Care". He also worked as an ergonomics research consultant for Capital Health, completing the project "Transferring the Bariatric Patient" at the Glenrose Rehabilitation Hospital. In this occasion he started to collaborate with EWI Works and joined the team in early 2007.

Edgar is a member of the Association of Canadian Ergonomists, the BC Environmental and Occupational Health Research Network, the Brazilian Ergonomics Association, and the National Association of Work Physical Therapy from Brazil.

In his leisure time, Edgar enjoys snowboarding, surfing, swimming, and mountain biking. For more information on Edgar's activities and publications check his profile @ <http://myprofile.cos.com/evieira>

---