Saikat Pal

Assistant Professor at New Jersey Institute of Technology

Newark, NJ, US

Saikat Pal studies human movement, musculoskeletal disorders, sports performance and robotic technology to improve mobility.

Biography

Saikat Pal is an assistant professor of biomedical engineering and director of the Life Sciences Motion Capture Lab (LSMC), which studies human movement, musculoskeletal disorders, sports performance and robotic technology. The lab uses monitoring and recording equipment to measure the gaits of children with cerebral palsy, test robotic exoskeletons used by military veterans with spinal cord injuries and quantify the limits of human performance. LSMC is part of the larger Computational Orthopaedics and Rehabilitation Engineering Lab that Pal directs. Pal's research has been published in the Journal of Orthopaedic Research, Medical Physics and the Journal of Applied Biomechanics. He is a member of the International Society of Biomechanics and Orthopaedics Research Society. Before NJIT, he worked at Stanford University, as a research associate, the U.S. Department of Veteran Affairs, as a biomedical engineer, and California Polytechnic State University, as an assistant professor.

Areas of Expertise

Biomedical Engineering, Mobility Disorders, Human Movement, Robotic Technology, Mechanical Engineering, Musculoskeletal Disorders, Assistive Technologies, Biomechanics, Rehabiliation Robotics

Education

University of Denver
M.S. Mechanical Engineering

University of Denver
B.S. Computer Engineering

University of Denver
Ph.D. Mechanical Engineering