

The future in
MOTION.



DYOUVILLE



Imagine using the latest motion-capture technology, not for a Hollywood blockbuster,

but to help a little girl with cerebral palsy learn how to walk; assist an elderly person who had a stroke regain movement in their fingers; or rehab a baseball player's shoulder so he can pitch again.

A new, cutting-edge Biomechanics Lab at D'Youville will teach students to utilize advanced 3-D imaging technology and equipment to learn the science of human movement and apply it to help people heal.

"The science behind human motion encompasses important clinical applications for rehabilitation, motor control, injury prevention, gait analysis, and performance improvement. The technology we seek for the Biomechanics Lab at D'Youville will allow our faculty and students to replicate movement digitally and schematically, so we can discover best treatment options for a variety of injuries and conditions." **-Dr. Daniel Ramsey, Ph.D., Professor of Health Professions Education, Research Scientist, and Lab Director**

The future is in motion. Join us to improve health outcomes through the science of human movement by investing in Western New York's premier school for physical therapy, exercise science, and chiropractic medicine.

Student experiences in the interdisciplinary Biomechanics Lab at D'Youville will teach the intricate science of human movement through clinical learning. Hands-on experiences will set D'Youville graduates apart as they become healthcare professionals in Buffalo and beyond.

Community-minded philanthropists who want to “join the movement” will have an opportunity to invest in the study and research of human movement for healing; as well as the development of high quality practitioners in physical therapy, exercise science, and chiropractic medicine. Renovations on the space itself have been completed. Phase two includes purchasing and installing equipment and software including:

1. Vantage Motion Capture Camera System

Acquires 360-degree, 3D kinematic information about human movement performance

2. Force Platforms (Two)

Measures ground reaction forces during various activities, in vertical, anterior posterior and medial lateral directions

3. Kinesiological Electromyography (EMG)

Records the electrical activity produced by skeletal muscles during movement

4. Data Post-Processing and Analysis (Software)

Measures and quantifies movement as collected by a 3D motion capture system

“Motion capture technology can answer contemporary clinical questions on how the human body moves, walks, or responds to injury and rehabilitation.”

-Dr. Daniel Ramsey, Biomechanics Lab director.



Will you **PUT THE FUTURE IN MOTION?**

D’Youville seeks lead gifts for the Biomechanics Lab including a primary naming opportunity of the space for \$150,000. Additional recognition opportunities exist. Help bring the latest technology to leading student practitioners so they can bring cutting edge treatments to the patients they will serve.

To learn more, contact Pam Say, Vice President for Institutional Advancement, 716-829-7801, or sayp@dyc.edu.



Join the
MOVEMENT.

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