

Human Motion Control Laboratory

Research:

- Musculoskeletal Control of Spine Motion
 - Low Back Pain and Scoliosis
- Dynamic Ankle Joint Stability
- Occupational Vibration Exposure
- fMRI Imaging of Sensory Adaptation
- Medical Device Design and Testing



Collaborating Faculty:

Michael Jorgensen, Ph.D. (Wichita State Univ.)

Janice Loudon, Ph.D., Cary Savage, Ph.D., John Keighley,
Ph.D. (KU Med)

Steven Barlow, Ph.D., Mark Ewing, Ph.D., Elizabeth Friis, Ph.D. (KU)

Equipment:

Electromyography, electrooculography; Flock of Birds electromagnetic motion tracking; Accelerometers; Electrogoniometers; Force plate; Shaker table; Specialty vibration devices

Funding Sources:

NIOSH, NIH, Whitaker Foundation, Industry



Director:

Sara Wilson, Ph.D.

(M.I.T. 1999)

Associate Professor,
Mechanical Engineering



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Courses:

Biomechanical Systems

Physiological Systems

Bioethics

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