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**Caitlin McCleery, ME**  
**Senior Associate**

Ms. Caitlin McCleery is a Senior Associate at the National Biomechanics Institute. She holds a Master of Engineering (ME) and Bachelor of Science (BS) in Biomedical Engineering from Rensselaer Polytechnic Institute.

Ms. McCleery's current research focuses on the injury tolerances of human tissues throughout the body in varied loading conditions. Ms. McCleery also has previous research experience focused on comparability of common mechanical testing methods for soft materials, as well as characterization and storage techniques for engineered tissue samples. Previously, she worked on a project for exercise device evaluation at the NASA Glenn Research Center.

**Academic Credentials**

ME, Biomedical Engineering, Rensselaer Polytechnic Institute, 2017

BS, Biomedical Engineering, Rensselaer Polytechnic Institute, 2017

**Current Appointments**

Senior Associate, National Biomechanics Institute

**Past Appointments**

Research Assistant, Rensselaer Polytechnic Institute, Corr Lab, 2017-18

Biomechanical Modeling Intern, NASA Glenn Research Center, 2016

Research Assistant, Rensselaer Polytechnic Institute, Wan Lab, 2014-15

**Licenses, Certifications, & Selected Continuing Education**

Advanced Photogrammetry for Collision Reconstruction, Lightpoint Scientific

Traffic Crash Reconstruction 3, Northwestern University

**Peer-Reviewed Publications & Presentations**

Thompson W., Gallo C., Jagodnik K., Schmidt E., McCleery C., Lewandowski B., "Biomechanical Modeling of Single-leg Squat and Heel Raise on the Hybrid Ultimate Lifting Kit," American Society for Gravitational and Space Research Annual Meeting, 2016.

Kingsley D.M., McCleery C.H., Johnson C.D.L., Bramson M.T.K., Rende D., Gilbert R.J., Corr D.T., "Multi-modal characterization of polymeric gels to determine the influence of testing method on observed elastic modulus," Journal of the Mechanical Behavior of Biomedical Materials, 2019.

Lee, F., McCleery, C.H., Ngo, C., Limousis-Gayda, M., Hashish, R., "Probability of Frontal Airbag Deployment in Bumper-Bumper and Underride Collisions (SAE Technical Paper 2019-01-0620)", Warrendale, PA: Society of Automotive Engineers, 2019.

**Languages**

English