



Brooke E. McKinney, MS
*Biomechanical Engineer / Research and Testing
Injury Biomechanics*

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Mrs. McKinney obtained her Bachelor of Science in Mechanical Engineering and Master of Science in Mechanical Engineering with a focus in Biomechanics from the Colorado School of Mines.

Brooke's graduate work at the Colorado School of Mines was tailored towards research and testing methods for biomechanical analyses as well methods for data processing and statistical analysis. Her course and lab work included Musculoskeletal Modeling, Experimental Methods, and Data Science used for biomechanical investigations.

During a summer internship and continuing during her final graduate school year at the Colorado School of Mines, Mrs. McKinney spearheaded a research project at Vector Scientific conducting large-scale data processing and statistical analyses of a national vehicle crash database for occupant injuries in side impacts and to assess side airbag effectiveness.

Brooke's education, background, applied engineering, and biomechanical experience contributes to VSI's injury biomechanics analyses and research involving human dynamics and injuries in automobile, sport/recreation, and industrial/occupational accidents. Brooke has completed a specialized course on injury biomechanics in automotive collisions and attends professional conferences and seminars focusing on biomechanical research in automotive safety.

- Master of Science (MS) Mechanical Engineering, Focus in Biomechanics – Colorado School of Mines
- Bachelor of Science (BS) Mechanical Engineering, Minor in Biomechanics – Colorado School of Mines

