

MOTOR VEHICLE COLLISION OCCUPANT INJURY

Frontal, Rear, Side Impact, and Rollover Events
Single and Multiple Vehicle Events
Motorcycle Events
Injury Assessment
Driver Identification
Occupant Kinematic Analysis
Child Restraint Analysis
Seatbelt Analysis
Airbag Analysis
Vehicle Examination
Scene Examination
Hazard Identification
Surrogate Studies

PEDESTRIAN INJURY FROM VEHICLE IMPACTS

Injury Ssessment
Small Car, SUV, LTV, and Truck Impacts
Motorcycle Impacts
Kinematic Analysis
Scene Examination
Impact Reconstruction

SLIPS, TRIPS and FALLS

Sporting and Recreation Injury Analysis
Occupational and Residential Injury Analysis
Surface Testing
Friction Testing
Hazard Analysis
Risk Assessment

PRODUCT FAILURES

Materials Failure Analysis
Mechanical Failure Analysis
Metallurgical Failure Analysis
Exemplar Testing

SAFETY EQUIPMENT USE and EFFECTIVENESS

Failure Mode and Effects Analysis
Hazard Based Safety Engineering Evaluations



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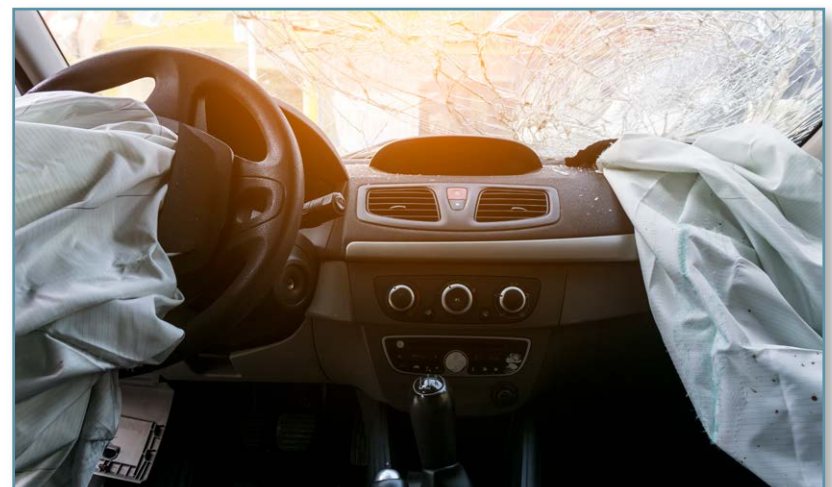
Advancing the Science of Safety

JENSEN HUGHES is a global leader in speciality engineering and consulting services with over 1,200 engineers, scientists, and consultants offering extensive expertise across a wide range of technical and scientific disciplines. The experts at JENSEN HUGHES understand the dynamic and kinematic variables of injurious events and provide our clients with the rigorous scientific analysis that is required to make an informed decision.

The Injury Biomechanics team assists clients by providing analysis of injury causation arising from personal injury, premises, and property liability claims. Our experts are experienced in determining causation across a wide range of personal injury incidents including motor vehicle collisions, pedestrian impacts, sports and recreation accidents, occupational and residential accidents, product failure, and medical device failure resulting in injury. Our team understands the complexities of injuries, and use practiced methodologies to determine injury causation of head and brain injuries, neck and spinal injuries, upper and lower limb injuries, and torso injuries.

Motor Vehicle Collision Occupant Injury

Our injury biomechanics professionals have collectively analyzed a wide range of motor vehicle collisions where occupants have been significantly, and sometimes fatally, injured. Our extensive experience in analyzing rear impacts, frontal impacts, side impacts and rollover collisions involving single or multiple vehicles provides clients with invaluable insight for every unique incident. The JENSEN HUGHES team provides scientifically verifiable answers to questions on injury causation, driver identification, occupant kinematics, and restraint use and effectiveness.





Pedestrian Injury from Vehicle Impacts

Pedestrian impacts can result in minor to fatal injury. The interaction between a motor vehicle and pedestrian is categorized into a number of general categories including forward projections, fender vaults, roof vaults, sideswipes, dragging, and runovers. Different vehicle profiles on small cars, SUVs, LTVs and trucks result in different injury patterns to struck pedestrians. Impact kinematics differs significantly between adult and child pedestrians given the range of height, weight and other various considerations.

Slips, Trips, and Falls

Our team is experienced in determining the cause of a wide range of slip, trip and fall injuries resulting from sporting, recreation, occupational, and residential accidents. Our team includes CX-LT certified tribometrists skilled in the evaluation of walking surfaces while our modern in-house scientific laboratory provides our engineering professionals with the capability to perform an extensive range of testing to recreate and investigate slip, trips and fall events.



Product Failures

JENSEN HUGHES multi-disciplinary team specializes in product failure analysis, failure mode and effects analysis of medical devices, home products, toys, and consumer electronics, building products, construction defect, automotive and heavy equipment, personal injury, and fire and explosion investigations. Our experts provide consulting services for product design, development, safety testing, product reliability, validation and verification, recalls and safety issues, Consumer Product Safety Commission (CPSC) support, and safety analysis for potential recalls.

Safety Equipment Use and Effectiveness

Our multi-disciplinary team can evaluate and determine effectiveness of safety equipment used in sporting, recreation and occupational activities. We have extensive experience evaluating helmet technology and determining effectiveness of helmet design during injurious events. Our in-house laboratory offers clients an extensive suite of testing options to ensure a comprehensive analysis is performed in support of injury related claims. Our capabilities include, but are not limited to, exemplar testing of equipment, load testing, material stress and strain testing, non-destructive testing, product life expectancy evaluation and the creation of test apparatus and test plans to provide scientifically verifiable data to validate hypothesized injury event scenarios.



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