

Kelly E. Bosch

Senior Consultant / Detroit



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Background

Dr. Bosch holds a B.S. degree in Mechanical Engineering, an M.Eng. degree in Automotive Engineering, and a Ph.D. in Biomedical Engineering with a focus in Impact Biomechanics. Her areas of expertise include the biomechanics of human injury, accident reconstruction, vehicle safety design, and military underbody blast occupant safety.

Dr. Bosch has over 10 years of occupant and crash safety research experience at various vehicle manufacturers, with a focus on safety restraint systems and interior design for occupant protection. Dr. Bosch has experience in assessing occupant kinematics and kinetics with resulting injury analysis in military underbody blast settings. She is well-versed in the Federal Motor Vehicle Safety Standards for safety and crash testing, and she has performed numerous full-vehicle crash tests for both regulatory compliance and litigation matters. Her accident reconstruction experience includes, but is not limited to, passenger vehicles, off-road vehicles, motorcycles, heavy trucks, roof strength analyses, and pedestrian impacts.

Dr. Bosch is published in numerous publications related to occupant safety, accident reconstruction, and military underbody blast analysis.

Education and Certifications

- Biomedical Engineering, Ph.D.: Wayne State University
- Automotive Engineering, M.Eng.: University of Michigan
- Mechanical Engineering (summa cum laude, honors), B.S.E: University of Michigan
- Professional Engineer – Mechanical: Arizona