




HELENA BIRD

**Consultant**

BSc (Hons)

Forensic Investigations Team Team +44 (0)1344 770892 DD +44 (0)1344 770050 investigations@trl.co.uk

Helena is a Consultant in the Forensic Investigations Team at TRL specialising in road collision reconstruction and providing consultancy advice. She holds a BSc in Forensic Investigation, and both a University Certificate in Professional Development (UCPD) and a Certificate of Higher Education (CertHE) in road collision investigation.

Helena served as a Police Staff Forensic Collision Investigator prior to joining TRL, where she was responsible for the investigation and reconstruction of fatal and serious injury collisions, as well as those involving police vehicles. She has specialist knowledge of vehicle and scene inspections and has extensive expertise in the use of scene surveying and scene photography procedures. She has reconstructed collisions involving a wide range of vehicles, as well as those involving pedestrians and cyclists.

Helena also has specialist expertise in forensic video analysis and digital data, using this along with the interpretation of physical evidence, to reconstruct collisions. This includes the recovery and testing of footage to determine vehicle speed and sight line analysis as well as the retrieval of crash data from airbag control modules (ACM). She is experienced in conducting and analysing deceleration (brake) testing to determine the level of friction available to vehicles involved in collisions. Helena is experienced in laser scanning as well as the use of 2D and 3D modelling, and reconstruction software to enable the visualisation of collision scenes. Additionally, she is trained and experienced in both conspicuity testing and human factors, as they apply to road collisions.

Helena has provided expert evidence to support investigations being undertaken by both the Police for presentation in Coroners and Crown Courts, as well as investigations being conducted by the Independent Office of Police Conduct (IOPC).