



PETER SMITH
Senior I Consultant
BAKER RISK EUROPE LIMITED

Education:	B.Eng (Hons), Civil Engineering, University of Southampton, United Kingdom Ph.D, Structural Engineering, University of Southampton, United Kingdom
Areas of Practice:	Peter Smith works at the BakerRisk Europe Ltd. office, based in the United Kingdom. His background covers conventional structural engineering and construction, protective engineering practices and dynamic structural response evaluations, physical testing and research and development. His principal role within the Structures Section of BakerRisk is the quantification and mitigation of risk, associated with blast, fire, and toxic hazards. He has supported public and private sector clients in such efforts internationally, as a technical consultant and project manager.
Experience:	<ul style="list-style-type: none">• Over 10 years' experience as a practicing structural engineer – engaged in analyses, design, construction and research and development.• Has been involved in and led multiple projects entailing planning, analysis, design and construction related to residential, commercial, industrial and governmental buildings and facilities.• Current portfolio demonstrates proficiency in the analysis and design of various construction materials (such as steel, reinforced concrete, masonry and timber) implemented in accordance with a variety international codes of practice (the British Standards, EuroCodes, International Building Codes, American Petrochemical Industry Guidelines and Unified Facility Criteria).• Has performed and managed consequence and risk-based vulnerability assessments for existing and proposed new-build constructions, subject to the effects of impact, blast, fire, and toxic events. These include offices, control rooms, laboratories, workshops and storage facilities.• Has designed protective systems for existing and proposed new-build constructions; assisting clients through planning and optioneering phases, final detailed design and during construction.• Peter has supported numerous facility siting studies and quantitative risk assessments internationally; providing an on-site presence and assessing the vulnerability of existing structures and assets to blast, fire and toxic hazards.• He has coordinated and performed numerous structural surveys, construction inspections and CO₂ gas testing programmes to check, test and validate the adequacy of existing and new buildings and protective systems.• Peter has assisted clients in the testing and development of blast and fire resistant products.• His post-graduate degree entailed the analytical and experimental investigation of structural robustness in framed buildings subject to malicious actions. Conclusions of the research are directly linked to modern blast resistant design and progressive collapse design practice.• Prior experience as a research engineer included; conducting and reporting experimental trials on prototype equipment developed by and for the petrochemical industry; assisting with high-explosive and ballistic threat field trials; the testing and design of structural collapse mitigation schemes and prototype systems; development of force protection guidance for the Royal Engineers and U.S. Army Corps of Engineers, and; the forensic examination and analysis of structural systems and buildings damaged by high-explosive blast and improvised explosive devises.
Professional Chronology:	Structural Engineer at PLRoss Consulting Engineers Ltd (2006-2008); Post-graduate Student at the University of Southampton (2007-2012); Research Engineer at the University of Southampton (2008-2011); BakerRisk Europe Limited, Project I Consultant (2012-2014); Project II Consultant (2014-present).
Professional Memberships:	Institute of Civil Engineers (ICE)