

Smytec offers a range of consultancy and Bureau-style opportunities for police, forensic, defence, and academic institutes. Please see our individual consultancy expertise below.

IEDs, Explosives and Terrorism

We consider ourselves one of the leading authorities in evidence recovery, particularly fingerprint evidence recovery, from IED, explosives and terrorism scenes. The use of IEDs is a growing threat internationally, but as their use has grown, so now has our ability to catch the perpetrators. With Smytec's BlindSite® technology, identification quality fingerprints can be rapidly retrieved from terrorist sites without impacting on further forensic analyses, such as DNA and explosive residue analysis, due to BlindSite's non-contact-non-destructive (NCND) application.

These incidents often have multiple layers of investigation associated with them – from traditional scene search and recovery, to explosives and IED investigation, extended exposure of heat and flame (similar to arson scenes), and often multiple casualties. It is imperative at these scenes to preserve as much of the evidence as possible, while employing public safety procedures and optimal first response protocols to any casualties. Rapid identification of the perpetrator and their network of associates is paramount.

Smytec has created the only repeatable, deployable, fingerprint recovery technique for the retrieval of fingerprints from post-blast IED fragments and debris, via our state-of-the-art NCND technology. We can acquire high quality fingerprints directly at the scene using BlindSite, with potential for rapid comparison through our in-built AFIS to identify not only the person who detonated an IED, but a network of individuals involved in the preparation, assembling, transporting, and detonating of the IED. This is a unique capability that we provide.

We can provide a service to assess post-blast IED evidence for fingerprints, whether the fragments are relatively new or years old. We can also provide training and teaching in post-blast fingerprint retrieval to investigators, defence agencies, forensic practitioners, and academics.

Cold Case Evidence

Smytec is able to offer a service to analyse or reanalyse cold case evidence or old evidence from cases that have either been reopened or closed. By providing a unique NCND fingerprint retrieval method with BlindSite, we do not damage, interfere, touch, or impact the old evidence at all. Our technology can recover fingerprints from evidence that is in excess of 5 years old, even post-blast fragments that have been stored for many years. BlindSite can retrieve fingerprints from a variety of evidence types and surfaces, including both porous and non-porous.

We offer a rapid recovery method, meaning old evidence does not have to be exposed for a long time. We also do not require any prior chemical or physical treatments for enhancement, leaving the old evidence intact.

Crime Scene Investigation

Smytec can offer teaching and training in crime scene investigation, including advances in forensic evidence recovery techniques. Additionally, we provide a wide range of expertise covering the

scientific, technical and legal areas of crime scene investigation and the criminal justice system, from evidence collected at the scene through to that evidence being used in court and expert witness testimony.

As a company who provides cutting edge technology in this field, we are experts in the advancements being made in crime scene investigation in general. We have a wide breadth of knowledge for a variety of evidence types and evidence retrieval techniques, including fingerprints, blood, semen, drugs, explosives, terrorism, counter-terrorism, forensic imaging, wildlife crime, and food fraud, among others.

Wildlife Poaching

Wildlife poaching, particularly for ivory and rhino horn, is of international concern. Not only does the world find itself in a position where poaching is threatening the very survival of some species of animals, but wildlife poaching is feeding larger organized crime activities related to drugs and human trafficking, amongst many others. How Smytec can help with this is by providing a NCND technique for analysing recovered ivory and rhino horn for fingerprint evidence. This evidence could prove crucial in identifying an individual or network of individuals involved in this international black market. Not only could this provide pivotal evidence in identifying a poaching syndicate, it could also provide links to additional organized crime activities internationally.

Academic & Commercial Consultancy

Smytec's team have all been heavily involved in academic research prior to forming Smytec. Our experiences range from embarking on Masters' and PhD degrees, to offering business advice to budding academic spin outs and researcher entrepreneurs. As is apparent from the other consultancy activities we provide, we can offer academic teaching and training in the technical, scientific and legal aspects of forensic science, the criminal justice system, terrorism, and policing. We can also provide this expertise to private and public agencies as well as charities working in this sector.

At Smytec we are keen to engage our internal R&D team with academic research projects to help push forensic science and policing further and provide greater opportunities for higher quality evidence recovery. We are a visionary company pushing to improve the criminal justice system through innovative technology and cutting edge research.

Although our company focusses on police, forensics and defence, we are keen to offer assistance and advice, where needed, to academic tech transfer, Innovate UK applicants, ICURe entrepreneurs, and other technology start-up companies.

Enquiries

For general enquiries please contact us at:

info@smytec-ltd.com

+44 (0)1858 434 034

+44 (0)7868 202 257

www.smytec-ltd.com