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Statement of Requirement for the R-Cloud National Security Exploitation (NSE) Strategic Capability

Introduction

The Defence Science and Technology Laboratory (Dstl), which is part of the UK Ministry of Defence (MOD), is refreshing its commercial agreement for Science and Technology (S&T) research contracts, known as R-Cloud (Research Cloud).

MOD places extensive fundamental, experimental and applied research with industry and academic suppliers and wants to broaden access for this supply base, reducing the cost of trading with MOD and enabling agile contracting. R-Cloud complements MOD's other contracting mechanisms and academic and industry suppliers of S&T research are now invited to apply to join MOD's research supplier community within the National Security Exploitation (NSE) Strategic Capability. NSE conducts research and analysis to provide informed advice on developments in forensic science and aligned technical disciplines to support the strategic objectives of Defence, National Security and Policing.

This statement of requirement relates to suppliers joining R-Cloud within the National Security Exploitation (NSE) capability area. R-Cloud provides a low barrier to entry for potential suppliers and offers direct access to MOD's current and future research requirements. Academic and industrial suppliers of NSE research are invited to apply to R-Cloud if you are a supplier of Science and Technology Research and/or Services in this area.

Statement of Requirement

Forensic Science Research

Research may be required to support the collection, recovery, processing, analysis and interpretation of all forms of physical (e.g. DNA and fingerprints) and digital evidence to support the emerging and future requirements of Defence, National Security and Policing. This may include, but is not limited to:

- Novel technologies for the analysis of forensic evidence types both at a scene and in the laboratory.



- Developments leading to improvements in the speed and accuracy of analysis of forensic evidence types.
- Enhanced or novel sampling techniques to aid the recovery of evidence types and to maximise the potential opportunities to analyse the information recovered.
- Development of reliable models to support research and validation studies for the purposes of quality assurance.
- Development of algorithms for data mining, interrogation and exploitation of large data sets.
- Early identification of changes that may impact current fingerprint visualisation processes and identification of suitable replacements or alternative methods.
- Methods for the quality assurance of the information obtained from forensic recovery, to help provide confidence in the information when used as evidence in court.
- Application of novel technologies that may have been developed for other markets to forensic science use cases.

The R-Cloud NSE Strategic Capability requires multidisciplinary expertise spanning forensic science, digital forensics, biology, genetics and data analytics. Suppliers should demonstrate strong capability in one or more areas and contribute to advancing secure sovereign, and innovative exploitation research for Defence and Security applications.