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Statement of Requirement for the R-Cloud Quantum 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 Quantum Strategic Capability.

This statement of requirement relates to suppliers joining R-Cloud within the Quantum technology area direct access to MOD's current and future research requirements. Academic and industrial suppliers of Quantum research are invited to apply to R-Cloud if you are a supplier of Science and Technology Research in this area.

The Quantum Strategic Capability (SC) exists to ensure the UK can exploit quantum technologies to deliver decisive Defence and Security advantage. Quantum technology has the potential to revolutionise Defence and Security (D&S), with requirements across PNT, Sensing, Comms & Nets, and information processing.

Statement of Requirement:

The Strategic Capability Area (SCA) for Quantum technologies has an interest in quantum approaches to provide:

Resilient Positioning, Navigation, and Timing (PNT)

Requirement for alternative and fused PNT capabilities that remain effective under electromagnetic (EM) degradation and contested environments.

Advanced Sensing and Detection

Demand for ultra-precise measurement and detection of extremely weak or complex signals across multiple sensing domains.

High-Fidelity Modelling, Simulation, and Digital Evidence



Advanced
Materials

Growing reliance on high-performance modelling to support evidence based operational planning and decision making of utilising quantum technologies in Defence environments.

Secure Communications, Networks and EM Superiority

Need for secure, resilient, communications and networks.

Future compute

Applications to Defence and Security operations.