THALES

General information

Thales UK, Research and Technology Adrian Waller <u>adrian.waller@uk.thalesgroup.com</u> +44 (0)118 923 8304

Area of interest	Choose Y or N
 Functional encryption and reduction of leakage (e.g., anonymization or obfuscation) 	γ*
 Ultra-lightweight cryptology and ultra-high-speed cryptographic algorithms including quantum cryptography 	Y
 Physical cryptanalysis, including tampering, side channel, faults injection attacks, and security of tools for good software implementation and validation practices 	Y
 Authenticated encrypted token research for mobile payment solution 	N
 Innovative cryptographic primitives and complementary non-cryptographic privacy-preserving 	
mechanisms to enforce privacy	γ*
 New techniques, such as quantum safe cryptography, which are secure from quantum computers 	Y
Quantum key distribution	N
 Automated proof techniques for cryptographic protocols 	Y

Competencies

- Organisation competencies
 - Implementation of cryptographic algorithms and devices (Hardware Security Modules (HSM)s, Key Managers, Network/Link layer Secure Communications,...)
 - Application of cryptography in real-world scenarios (practical constraints, system architectures, security management, ...)
- Organisation experience in the European project
 - Extensive across many technology and application areas. In cryptography, current projects include:
 - EC H2020 SAFEcrypto ("Quantum Safe" cryptography) WP Leader, Standards Liaison Manager
 - EC H2020 HEAT (Homomorphic Encryption) WP Leader
- The skills you can bring
 - Knowledge of implementation techniques, technologies, constraints, assurance, etc.
 - Use cases from across the Thales Group (Aerospace, Security, Transport (Road/Rail/Maritime), Space,...)



not mandatory slide

Project idea

- Describe your project idea
- List of the complementary skills you need for your consortium