Organisation logo

General information

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

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Competencies

- *Organisation competencies* Mathematics (esp. Number Theory and Algebraic Geometry), Computer Science (Cryptography, Formal Methods)
- *Organisation experience in the European project* 32 years experience of European research funding, dedicated project management and finance teams.

- *The skills you can bring* Davenport has 34 years experience of cryptography and 32 years of European funding. He and colleagues have published on attribute-based authentication/ encryption ("I don't care who it is, I need to know that they're authorized"), which is a better fit for many scenarios (Cloud, in particular) than standard identity-based methods.