



# VIVA

## PQC ALGORITHMS

**Secure Tomorrow, Today:**

Viva's Post-Quantum Cryptography Solutions



## Future Ready Security

In an era where quantum computing threatens traditional encryption methods, organisations must adopt **Post-Quantum Cryptography (PQC)** to ensure **data security and regulatory compliance**. Viva delivers cutting-edge PQC solutions to fortify digital ecosystems in Healthcare, Finance, and Telecom, protecting sensitive information from future quantum attacks.

## Why Post-Quantum Cryptography?

With the rapid advancement of quantum computing, conventional encryption methods like RSA and ECC are at risk. **PQC algorithms provide long-term security, ensuring your data remains safe even in a post-quantum world**. Viva specialises in implementing **NIST-recommended PQC algorithms** to safeguard critical infrastructures.

## Why Choose Viva?

- **Industry-Specific Expertise:** Tailored PQC implementations for healthcare, finance, and telecom.
- **NIST-Compliant Solutions:** Future-proof cryptographic frameworks adhering to global security standards.
- **Seamless Integration:** Designed for easy deployment into existing IT infrastructures with minimal disruption.
- **24/7 Security & Compliance Support:** Ensuring your business stays ahead in the quantum era.



## Viva's PQC Solutions for Your Industry:



### Telecom: Strengthening Communication Networks

- **PQC-Secured VPNs & Network Encryption:** Ensures end-to-end security for data transmissions across 5G, IoT, and cloud infrastructure.
- **Post-Quantum Key Exchange:** Safeguards encryption keys used in telecommunications to prevent interception by quantum adversaries.
- **Enhanced Subscriber Privacy:** Protects customer data from cyber threats and quantum-based intrusions.



### Finance: Future-Proofing Financial Transactions

- **Quantum-Safe Digital Signatures:** Enhances transaction security by adopting PQC-resistant cryptographic schemes.
- **Secured Payment Systems:** Protects online banking, credit card transactions, and blockchain-based systems from quantum breaches.
- **Regulatory Compliance Readiness:** Supports financial institutions in meeting the latest security regulations, including post-quantum frameworks.



### Healthcare: Securing Patient Data & Compliance

- **PQC-Enhanced Data Encryption:** Ensures EHRs, medical images, and patient records remain protected against quantum threats.
- **Secure Telemedicine:** Safeguards remote healthcare communications from eavesdropping and cyberattacks.
- **HIPAA & GDPR Compliance:** Helps healthcare organizations transition to PQC while maintaining compliance with global regulations.



## Our PQC Algorithm Expertise

We integrate industry-leading PQC algorithms to deliver **robust, scalable, and future-ready security** solutions:

- **CRYSTALS-Kyber & CRYSTALS-Dilithium:** Quantum-safe public key encryption and digital signatures.
- **Falcon:** Lightweight, high-performance signature schemes for secure authentication.
- **BIKE & SIKE:** Lattice-based encryption for next-gen secure communications.
- **McEliece:** Code-based cryptosystem ensuring long-term resilience.

## Get Quantum-Ready Today!

Don't wait for the quantum threat to become a reality.  
Future-proof your business with Viva's PQC solutions today!

### VIVA DIGITALLY

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