



# Quantum Cyber Readiness

**Transform cryptography today.  
Transition to quantum with confidence.**

Quantum computing should become mainstream in the next several years—delivering a powerful new tool cyberattackers can use to break cryptography. The time to act is now. Deloitte's Quantum Cyber Readiness services can help your business transform enterprise security and enter the quantum computing era with confidence. Discover how Deloitte's global scale, multidisciplinary capabilities, and cyber leadership can help you become more future-ready and resilient.



## The challenge

**Quantum computing is no longer a distant dream.** It is a steadily approaching reality that will redefine how organizations in all industries harness the power of data, run their businesses, and manage risk. It will unleash tremendous computing and data storage power—far surpassing the speed, scale, and innovation possible with today's digital technologies. But it also presents a daunting challenge: how to secure data and systems against cyber threats in a radically different computing environment. Preparing for this new era will involve years of planning and work, to identify and mitigate today's cryptographic risks as well as tomorrow's.



## Deloitte services for transforming cryptography and transitioning to quantum

### Quantum Cyber Readiness Services

Given the complex challenges emerging as the quantum era approaches, Deloitte can help you see the bigger picture and take action—with end-to-end services.



#### Cryptography Inventory, Analysis, and Roadmap:

Deloitte can help you begin to understand where you are today and where you can go. We bring a meticulous approach for understanding where cryptography is used in your business, how it underpins the trust in your core operations, and where cryptography is vulnerable to quantum or traditional threats.



#### Post-Quantum Cryptography Implementation and Transition:

Deloitte can support you in strategically planning transformation work, helping you migrate to new, quantum-secure technologies while bolstering security and reducing risk across the enterprise.



#### Governance and Compliance:

Deloitte comes prepared with industry-specific knowledge and capabilities for creating the structure and culture your business will need to navigate constantly changing standards, regulations, and technologies.

# The Deloitte difference

## INTEGRATED, STRATEGIC APPROACH

Deloitte's integrated, strategic approach provides a methodical and measured way to move you to Post-Quantum Cryptography—thoughtfully, with a sense of confidence and calm.

Working with you, we zero in on the outcomes that are most important to your business and the levers that will help produce those outcomes. We focus intently on the details and the connections across your IT landscape to reveal the bigger picture and understand what it means for the future of your business. The ultimate goal? Making your business more resilient.

## MULTIDISCIPLINARY GLOBAL TEAM

Deloitte's global, multidisciplinary team is available wherever your business operates, as a complete team with professionals in specialties across the cyber and cryptography spectrum, and in governance, communications, and other areas essential for a complete cyber transformation, including:

Cyber incident readiness, response, and recovery

Cyber strategy | Attack surface management

Security architecture | Network engineering

Zero Trust | Software supply chain | Digital identity

Cloud | Data management

## LEADERSHIP IN QUANTUM CYBER READINESS

Deloitte has been working in this space for about five years, helping some of the world's largest organizations adopt Post-Quantum Cryptography and become more crypto-agile.

Our extensive collaboration with organizations such as the National Institute of Standards and Technology (NIST) and the World Economic Forum—organizations that are setting the standard and defining the future of quantum computing—give us a powerful view into what comes next, how it can affect your business, and how you can get ahead of challenges and opportunities.

## Building bottom-line benefits

When you work with Deloitte to become quantum cyber-ready, you can position your organization to operate more resiliently today and to thrive in the future of cyber.



**Confidently enter the quantum computing era**, establishing your business as a leader in the market



**Safeguard critical assets**—such as personally identifiable information, intellectual property, and other sensitive data—more effectively



**Deploy Post-Quantum Cryptography** that increases the cybersecurity of your critical business assets today and into the future



**Enable crypto-agility** that allows you to efficiently and quickly respond to evolving security threats and new cryptographic standards



**Increase business resiliency** while reducing operational risks



**Build greater trust** in your IT systems and business processes, protect your brand, and elevate your organization's reputation



**Innovate rapidly and securely** in the quantum era

# #1

**Ranked No. 1 in Security Services by revenue in the 2024 Gartner® Market Share: Security Services, Worldwide, 2023 report<sup>1</sup>**



## Get on the path to quantum cyber readiness

To learn more, visit [www.deloitte.com/quantumcyber](https://www.deloitte.com/quantumcyber), or contact our team today.

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### Endnotes

1. Gartner, Market Share: Security Services, Worldwide, 2023, By Shailendra Upadhyay, Rahul Yadav, Akshita Joshi, Matt Milone, Travis Lee, 22 May 2024. Gartner does not endorse any vendor, product or service depicted in its research publications, and does not advise technology users to select only those vendors with the highest ratings or other designation. Gartner research publications consist of the opinions of Gartner's research organization and should not be construed as statements of fact. Gartner disclaims all warranties, expressed or implied, with respect to this research, including any warranties of merchantability or fitness for a particular purpose.

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