SANDBOX**AQ**

AI + Quantum Technology for Government

SandboxAQ accelerates the adoption of AI + Quantum (AQ) technology to help the U.S. and its allies tackle hard challenges and ensure a better, safer world for all. Our team works with public sector organizations to protect sensitive data, accelerate materials discovery, and deploy quantum sensors for applications such as GPS-denied navigation, medical diagnostics, and more.

Core Capabilities

AI + QUANTUM

SandboxAQ leverages the compound effects of AI and Quantum technologies (AQ) to solve hard challenges impacting government agencies by unlocking novel applications previously inaccessible using either technology alone. Our AQ technologies enable transformative approaches by bridging the gap between cutting-edge research and practical market solutions.

POST-QUANTUM CRYPTOGRAPHY

Protect your organization's sensitive data from both current and future cyber threats. The **SandboxAQ AQtive Guard** provides full visibility of your cryptographic security posture, policy management, and deployment and enforcement of quantum-resistant protocols. With **AQtive Guard** you can achieve a high level of security and prepare for the future of cybersecurity by complying with PQC mandates such as:

- NSM-10, National Security Memorandum on Promoting United States Leadership in Quantum Computing While Mitigating Risks to Vulnerable Cryptographic Systems
- OMB Memorandum Migrating to Post Quantum Cryptography
- Quantum Computing Cybersecurity Preparedness Act

QUANTUM SENSING

Detect faint variations in physical signals of interest amidst dynamic environmental noise and put them to use. Our AI integration enhances quantum sensing by optimizing signal interpretation. Our field tested sensing systems aim to enable quantum magnetic navigation in GPS-denied and spoofed environments and magnetocardiography to diagnose heart conditions at the point of care. We use a sensor that operates at room temperature and does not need to be shielded from the surrounding magnetic fields. We take the extreme sensitivity of quantum sensors out of the lab using AI to separate the signal from the noise.

AI SIMULATION

Screen an enormous number of possible options to suit your performance requirements of physical and biological systems that are governed by quantum mechanics, such as novel drugs and materials. We use AI to efficiently guide our screening process, simulating the quantum dynamics of your system on massive GPU clusters to synthesize data that enable our machine learning models to optimize all of your performance requirements simultaneously.

How We're Different

✓ **TRUSTED, DUAL-USE TECHNOLOGY**

We have been developing and deploying AQ solutions for impactful private companies in financial services, telecommunications, commercial aircraft manufacturing, life sciences, healthcare, and critical public institutions that support the national welfare and defense of the U.S. and allied nations.

✓ **PLATFORM AGNOSTIC**

Our AQ solutions run on today's computing architecture — in the cloud, on-prem, or at the edge. We work with all major cloud providers so you can maintain your preferred IT environment.

Global Strategic Alliances

accenture

Deloitte.

EY

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NAICS: 541715 R&D in Physics, Engineering, Life Sciences (except Nanotech and Biotech) — *PRIMARY* | 513210 Software Publishers | **541330** Engineering Services | **541511** Custom Computer Programming Services | **541512** Computer Systems Design Services | **541611** Administrative Management & General Management Consulting Services | **541618** Other Management Consulting Services | **541690** Other Scientific and Technical Consulting Services | **611430** Professional and Management Development Training

Contact our Public Sector Team.