



# KURTEK

CURATED TECHNOLOGIES

ADVANCING TECHNOLOGY ♦ ADVANCING HUMANITY

## ENTERPRISE ARCHITECTURE

*AGENCIES MUST APPLY **PROVEN ARCHITECTURE PRINCIPLES** TO ACHIEVE PROGRAM OBJECTIVES AND ENABLE THE NEXT GENERATION OF SPACE MISSIONS AND GROUND SYSTEMS.*

Building the next generation of enterprise systems requires moving beyond traditional designs and effectively leveraging elements such as hybrid cloud platforms, high-performance computing clusters, and integrated government and commercial systems. Kurtek provides a portfolio of enterprise architecture services that combines integrated, multidisciplinary capabilities and specific domain expertise to enable agencies to reliably achieve program and mission objectives.

### THE KURTEK DIFFERENCE

Our core strength is an **unparalleled team** of senior engineers and specialized subject-matter experts. Our engineers have decades of **proven performance** in multiple technical disciplines, with direct **hands-on experience** supporting numerous agencies, missions, programs, and systems across the global space community.

Our staff apply a balance of multiple proven architecture principles, including scalability, availability, flexibility, and resiliency, to deliver innovative next-generation designs, seamlessly integrate cutting-edge technologies and platforms, leverage commercial capabilities and partnerships, and ensure reliable system operation and rigorous regulatory compliance while reducing lifecycle cost and risk.

*LEVERAGE OUR **PROVEN ENGINEERING EXPERTISE** TO **ENABLE INNOVATIVE SOLUTIONS** AND **REDUCE MISSION COST AND RISK.***

Working with Kurtek gives you access to unique experience and expertise from across the global space industry. Our engineers have architected numerous mission-critical enterprise systems and can deliver comprehensive, end-to-end engineering support for your program's unique requirements.

To learn more about our capabilities, email us at [info@kurtek.io](mailto:info@kurtek.io) or call our team at **703-943-7236**.



Our wealth of experience and expertise allows us to provide robust enterprise architecture support across all phases of the program lifecycle.

## SCALABILITY

- Perform **system and network optimization** to increase operating capacity and mitigate long-term lifecycle cost growth.
- Integrate **commercial services** to augment existing government system capabilities and functions.

## AVAILABILITY

- Replatform legacy on-premises assets and services to **cloud platforms** to mitigate hardware failure and obsolescence risks.
- Utilize **high-availability cloud infrastructure** to protect against network disruptions and component failures.

## FLEXIBILITY

- Use **on-demand provisioning** of government and commercial cloud platform resources to provide dynamic operating capacity and load balancing.
- Implement **hybrid architectures** combining public cloud, private cloud, and on-premises capabilities to effectively meet unique mission requirements.

## RESILIENCY

- Implement rigorous **cybersecurity controls** across systems and networks to safeguard assets, protect data, and ensure reliable operation.
- Integrate native **cloud resiliency** frameworks to provide seamless data protection and disaster recovery.

We have successfully delivered results to government and commercial programs across the global space community.

## REPRESENTATIVE PROGRAMS

- Developed a cloud-first enterprise architecture for dynamic resource scheduling and provisioning, end-to-end service orchestration, and virtual network management across a global ecosystem of NASA, partner agency, and commercial provider assets.
- Implemented a secure, high-performance enterprise network across multiple NOAA and partner agency sites to support real-time, mission-critical operations and prioritized data delivery.