



# Cybersecurity: Mission integration to protect your assets

**CYBER SOLUTIONS**

POLICY

OPERATIONS

PEOPLE

TECHNOLOGY

MANAGEMENT

**Ready for what's next**

Booz | Allen | Hamilton  
delivering results that endure

## Cyber solutions from Booz Allen Hamilton help you achieve true cyber power.

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Cyber power is the strategic use of information and communications technologies to enable economic growth, empower society, and enhance national security, while simultaneously keeping cyberspace secure.

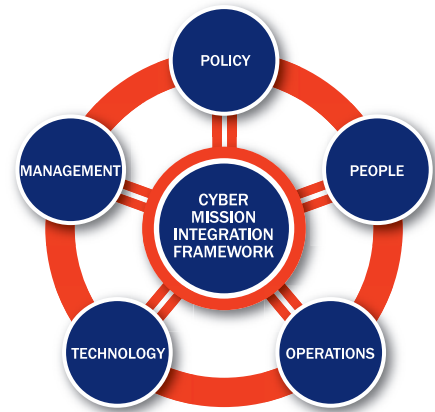


In all aspects of business, government, and society, cyber capabilities offer great promise and peril. With more users and systems coming online, and new threats and attacks emerging every day, securing the cyber realm is one of the greatest challenges facing organizations today.

Cybersecurity is more than technology, and more than information assurance and network security. It's a complex, multi-dimensional challenge that demands a multi-faceted and strategic solution. Count on Booz Allen Hamilton for solutions that help you be ready for what's next.

Booz Allen brings extensive experience deploying cybersecurity solutions for organizations of all kinds, from defense and national security agencies to civil and commercial sectors including finance, energy, health, and technology. With thousands of cyber professionals, Booz Allen is ready and able to help you achieve the benefits of cyber power, while mitigating the risks and improving your organization's readiness and response.

**Be sure. Be safe. Be ready. We help provide the building blocks to get you there.**



**The key to cybersecurity is integration. Our Mission Integration Framework aligns essential areas to address the real issues.**

Network security has expanded in scope to what we now call cybersecurity. To protect the most critical information, cyber strategies and solutions must deliver on several fronts. Today, it is necessary to “think bigger” than technology and address complex policy, human capital, management, and operational issues. Booz Allen offers an integrated framework to help clients address all issues and strengthen cybersecurity in any environment.

***Keeping pace in a world that keeps changing***

Many cyber solutions in the market can be summed up in one word: fragmented. Solve one problem and another arises. Challenges include investments in technology without training or full integration, strategists working independently from operators, or outmoded acquisition and procurement approaches that fail to keep pace with the changing threats and evolve to meet an organization’s needs.

At the same time, sophisticated cyber-attack tools proliferate on the Web, while the barriers to entry continue to fall. Because the challenges are significant, response and preparation must be equally bold, decisive, and comprehensive. As information and communications technology (ICT) systems become more integral to business operations and critical infrastructure, cybersecurity must be seen as a strategic enabler rather than a tactical afterthought.



***Putting it all together: Mission Integration***

The key to cybersecurity is an integrated approach. In many cases, “thinking bigger” means thinking in multiple dimensions—leveraging the tools, talent, and resources at your disposal for a multi-disciplinary approach to protect assets. From our perspective, success requires a consistent, systematic approach that integrates all elements of cybersecurity—Policy, Operations, People, Technology, and Management. By aligning these five key areas, Booz Allen’s unique Cyber Mission Integration Framework informs decision-making and strengthens readiness across the board.

“ Every American depends—directly or indirectly—on our system of information networks. They are increasingly the backbone of our economy and our infrastructure; our national security and our personal well-being. ”

– President Barack Obama

## POLICY

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### Enable cybersecurity with a unified approach

Policy is integral to leverage resources, reduce conflict and redundancy, and work toward long-term cybersecurity goals. Comprehensive policy informs the entire cybersecurity framework, laying out what needs to be done and who has the authority to do it.

Booz Allen helps clients establish policy guidance to provide direction and perspective, and devise strategy to explore various options to accomplish the policy ends. Next, we help you leverage doctrine to translate the strategy into an overarching operating model, illustrating how various people, process, and technology functions fit together to accomplish the mission. At the same time, governance delivers a coherent and consistent decision-making structure, clarifying decision rights and a model that avoids decision ambiguity and “paralysis by analysis.”



***Booz Allen helps integrate all elements of cybersecurity to instill consistency, engage stakeholders, and inform decision-making. This is key to translating intent into a viable operating model.***

<sup>1</sup>From the US Office of Counterintelligence report, October 2011, *Foreign Spies Stealing US Economic Secrets in Cyberspace, Report to Congress on Foreign Economic Collection and Industrial Espionage, 2009-2011.*

## OPERATIONS

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### Transform operational strategies to mitigate enterprise risks

Businesses and government agencies are under constant attack from adversaries seeking to disrupt operations or steal intellectual capital, financial information or military secrets. China and Russia, for example, are among the most aggressive, pervasive, and sophisticated threats, stealing economic data and technology at an alarming rate.<sup>1</sup> Traditional cybersecurity operations models aimed at preventing intrusion are inadequate against today's advanced persistent threats. Organizations must be able to anticipate new threats, not just react after attacks, and look beyond IT management to achieve a broader view to protect assets, reputation, competitiveness, financial viability, and more.

The key to enterprise risk management is to build multiple layers of defense within an organization and with partners across the cyber ecosystem. These layers of defense must be broader than just technology alone, as vulnerabilities may exist across people, policy, process, and management areas as well. Booz Allen's Dynamic Defense approach strengthens operations to be proactive, dynamic, and adaptive. We help organizations evolve cybersecurity from an IT issue of protecting networks and data to an effective enterprise-wide approach that considers all areas of risk.

With increasing reliance on digital technologies to carry out daily functions and support missions, effective cyber operations must consider a holistic view to defend the enterprise. Our process integrates threat awareness to identify vulnerabilities, rapid response to an attack to facilitate recovery and mitigate impact, cyber maturity diagnostics to provide ongoing insights into risks and weaknesses with a corresponding plan to enhance an organization's cybersecurity posture, and evolutionary response to develop remediation strategies and build on lessons learned. By layering defenses through policy, people, technology, and management processes, your organization will be ready to react to attacks because it has been proactive in anticipating and preparing for them.

***Leverage solutions that provide real-time awareness of threats and rapid response to attacks for flexible, evolving cyber operations throughout your organization and with business partners***

# PEOPLE

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## Build a collaborative culture armed with cyber-ready talent

The human dimension of cybersecurity is critical, encompassing everything from technical and leadership skills to organizational culture and communications. Cyber-secure organizations must be able to identify, recruit, develop, and retain a cyber-aware, cyber-ready workforce that can understand and adapt to advanced persistent cyber threats.

Part of the challenge is to ensure the right skill set... for network operators and defenders, cyber intelligence analysts, cyber leaders, even front-line employees. But it also requires the right mindset: a collaborative, cyber-aware culture that can detect and respond to threats that span organizational and geographic boundaries.

Booz Allen consultants work with clients to maximize the human factor. We help clients develop a comprehensive approach to cyber human capital, from competency modeling and workforce planning to cyber-specific recruiting and retention strategies. We also help clients train and develop talent, so that cyber professionals and leaders have the requisite state-of-the-art skills. And we help clients engage key internal and external organizational stakeholders, to keep them aware and informed of the cyber threat, to optimize the organization's internal climate and culture, and to build and sustain the external relationships necessary to effectively anticipate and overcome cyber events.

*Be ready for the opportunities ahead. We consider all aspects of the people challenge, including competency development, curriculum planning, stakeholder analysis, change management, and strategic communications.*

# TECHNOLOGY

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## Leverage game-changing technologies and standards to maximize security in the digital environment

While point solutions such as firewalls, antivirus software, and intrusion detection systems are essential, true cybersecurity requires a holistic approach to technology. From understanding current requirements and the impact of changes in technology capabilities to implementing appropriate solutions, our technology approach is aimed at realizing your competitive edge and staying ahead of fast-moving threats.

This vital work falls into three primary areas. Strategic innovation, research, and development provides for ongoing awareness and integration of emerging technologies to understand their benefits and impact, and to stay a step ahead of would-be cyber attackers. Requirements development looks at business needs across all sectors of the organization to ensure technology systems will be reliable and resilient and will support the mission of the organization. Finally, technology is about engineering and implementing solutions that are modular, interoperable, scalable, and can be integrated in a cost-efficient manner. From identity and access management, to cloud computing security and service oriented architecture (SOA), count on Booz Allen to enable the right technologies for your needs.



*Evaluate options, build effective architectures, and establish standards to ensure interoperability, integration, and innovation through technology.*

# MANAGEMENT

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## Ensure an integrated management system to stay ready and respond effectively

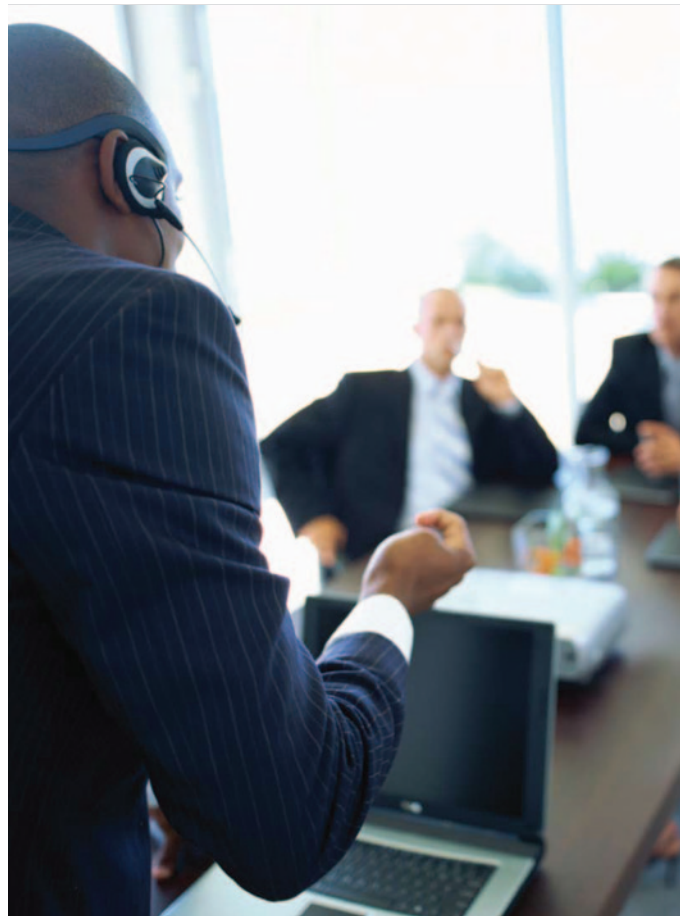
Managing security and cyber capabilities across the enterprise takes more than technology. With advanced persistent threats and sophisticated attacks on the rise, the vigilant enterprise must respond with an integrated management strategy that addresses technology, policy, people, and operations. These interdependent elements are critical to managing risks, monitoring assets and supply chains, training employees, providing for resiliency and recovery, and ensuring program oversight and performance of business-critical functions.

Our integrated approach helps organizations build a layered defense against cyber threats and enables them to better recognize vulnerabilities, respond to and limit attacks that do get through, and evolve from lessons learned and compliance requirements. It provides the discipline to prioritize investments and resources based on their value to the organization's business and mission, and the flexibility to quickly deploy new technologies or support a surge in operations.

For many leaders, the challenge of cyber management lies in staying focused on the big picture rather than the end solution. Management that aligns its resources with the organization's strategy and goals can reduce risks and damage from attacks, develop a culture where employees are knowledgeable and mindful about security policies, and protect high-impact assets and investments.

Multidimensional cyber challenges demand a comprehensive approach to ensure control and continuity of critical functions and requirements.

***Count on Booz Allen for expertise to help you establish performance criteria, address gaps, and improve accountability for resource management at all levels, in all functions.***





Across sectors, Booz Allen helps address risks and readiness with results

## Integrated and adapted for your market, your challenges

Information and communications technologies continue to dramatically alter and impact our economy, society, and national security. In the next 10 years, the reach and impact of cyberspace will accelerate as another billion users in China, India, Brazil, Russia, Indonesia, and the Middle East gain access to the Internet. Systems will become more diverse, distributed, and complex, and ever more critical to day-to-day functioning.

As you consider this reality, think about your organization's cyber readiness. Where are you vulnerable? How can you mitigate the risks while fueling progress?

### **Turn to Booz Allen for answers**

Booz Allen is poised with smart solutions that address all the issues. With extraordinary cyber talent and our Mission Integration Framework to guide you, we will help you devise the right policy and strategy to power your operations with the best people and technologies to manage the challenges ahead.

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ENERGY



FINANCE



HEALTH



TRANSPORTATION



INTELLIGENCE



HOMELAND SECURITY



DEFENSE





## About Booz Allen

Booz Allen Hamilton has been at the forefront of strategy and technology consulting for nearly a century. Today, the firm provides professional services primarily to the US government in defense, intelligence, and civil markets, and to major corporations, institutions, and not-for-profit organizations. Booz Allen offers clients deep functional knowledge spanning strategy and organization, engineering and operations, technology, and analytics—which it combines with specialized expertise in clients' mission and domain areas to help solve their toughest problems.

Booz Allen is headquartered in McLean, Virginia, employs more than 25,000 people, and had revenue of \$5.59 billion for the 12 months ended March 31, 2011. To learn more, visit [www.boozallen.com](http://www.boozallen.com). (NYSE: BAH)

### Contacts:

#### CYBER

##### Randy Hayes

Vice President  
hayes\_randy@bah.com  
703-377-5501

#### POLICY

##### Dave Sulek

Principal  
sulek\_david@bah.com  
703-984-0798

#### OPERATIONS

##### Rick Stotts

Principal  
stotts\_richard@bah.com  
210-244-4265

#### PEOPLE

##### Ron Sanders

Senior Executive Advisor  
sanders\_ron@bah.com  
703-984-0016

#### TECHNOLOGY

##### Brian Hubbard

Principal  
hubbard\_brian@bah.com  
410-684-6607

#### MANAGEMENT

##### Nadya Bartol

Senior Associate  
bartol\_nadya@bah.com  
301-444-4114