DEVSECOPS AT LEIDOS

May 2025

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ABOUT LEIDOS

Leidos is an industry and technology leader serving government and commercial customers with smarter, more efficient digital and mission innovations. Headquartered in Reston, Virginia, with 48,000 global employees, Leidos reported annual revenues of approximately US$16.7 billion for the fiscal year ended January 3, 2025.

Leidos Australia has been a trusted partner to the Australian Government for over 25 years, having delivered some of Australia's most complex software, systems and services integration projects. Our solutions improve business processes, reduce costs, accelerate response times and enhance services to end users; all helping to support and advance the Australian way of life.

Led by a local leadership team, our sovereign workforce leverages Leidos' global experience and partners with a wide range of specialist organisations to deliver integrated solutions to Australian Federal, State and Territory Governments.

Our expertise includes developing large design-build projects, global information systems, cybersecurity solutions, the creation of bespoke ICT solutions, the integration of existing IT systems and supporting military operations.

We also provide airborne surveillance operations on behalf of the Australian Border Force and airborne search-and-rescue services for the Australian Maritime Safety Authority.

Our government and defence customers enjoy the advantage of a ~2000-person local business, backed by our global expertise, experience and capabilities. With a focus on sovereign development and support, we invest locally in research and development both directly and in combination with local Small and Medium Enterprises.

In January 2025, Australian Defence Magazine ranked Leidos Australia as the country's 11th largest defence contractor by revenue.

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WHAT IS DEVSECOPS?

DevSecOps, a blend of Development, Security, and Operations, is a cultural and technical practice that integrates, automates and enhances security at every stage of the software development lifecycle.

Traditional software development follows a sequential approach where security and operational considerations are typically addressed at the end of the process leading to vulnerabilities and inefficiencies being discovered late, causing delays and increased costs.

As organisations have shifted to Agile and DevOps methodologies, which focus on continuous integration and continuous delivery (CI/CD), DevSecOps has evolved.

By embedding security practices into the CI/CD pipelines, DevSecOps ensures that security checks are performed continuously and automatically. And by incorporating security practices from the inception of a project, DevSecOps ensures that security is a shared responsibility among developers, testers, and operations team members.

Effective deployment of DevSecOps has many benefits - early detection and mitigation of risks, faster time to mission, cost savings, improved team collaboration, adherence to industry standards and the ability to quickly adapt and scale.
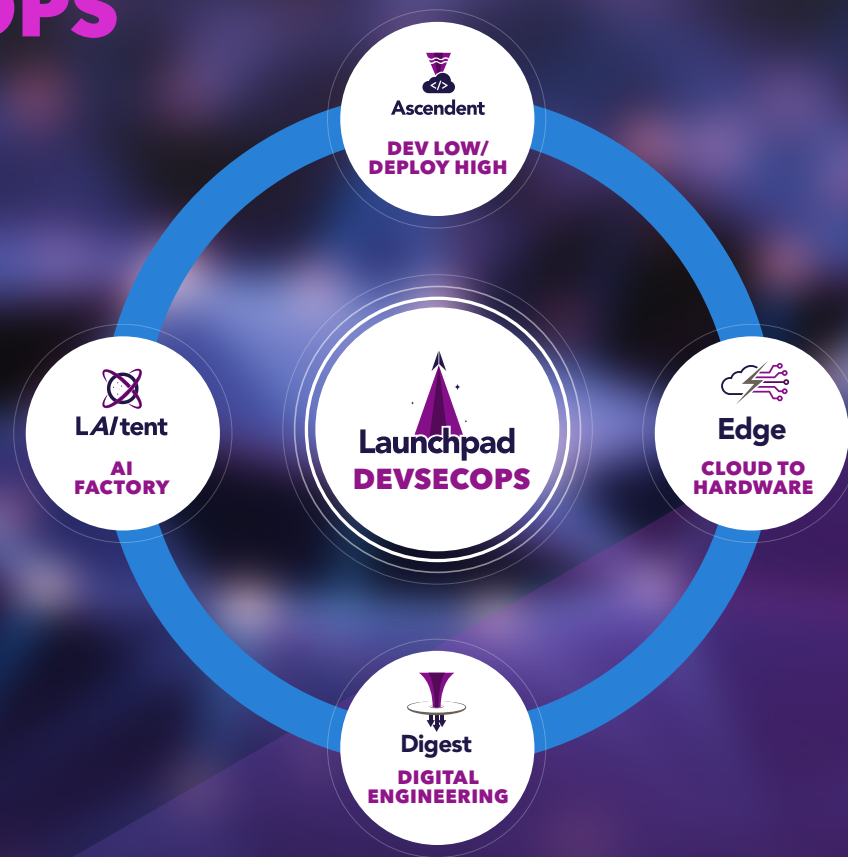
In a mission context, DevSecOps needs to consider a number of other factors, including:

- Software and services often need to operate in an air-gapped manner
- Production environments at the edge are often Denied, Degraded, Intermittent or Low-Bandwidth (DDIL)
- It may be necessary to consider developing software in low-side environments and deploying the code into high-side environments (dev low, deploy high)
- Unique paradigms around security at all levels of the solution are necessary to meet demanding mission and customer requirements
- Capabilities need to integrate with niche military standards and a blend of emerging and legacy technologies whilst delivering end-to-end consistency

Solutions may draw inspiration from COTS products and cloud technologies but be uniquely architected and distinctly configured to address specific agency needs that render traditional COTS and cloud approaches void.

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OUR DEVSECOPS ECOSYSTEM

Ascendent
DEV LOW/
DEPLOY HIGH

LAtent
AI
FACTORY

Launchpad
DEVSECOPS

Edge
CLOUD TO
HARDWARE

Digest
DIGITAL
ENGINEERING

LEIDOS DEVSECOPS ECOSYSTEM

A whole-of-business commitment is essential to embed the cultural, business practices and governance that is needed to deliver world class DevSecOps.

Leidos has embraced this challenge from the outset. Our DevSecOps governing practices, enabling tools and facilities have evolved over the past 25 years as we have prepared for, and responded to, mission expectations at scale for a variety of customers and operational challenges.

From integrating IOT data for the Bureau of Meteorology to working on eHealth records for our Defence service people to running the App Store that enables the Australian Defence Organisation to plan and coordinate its exercises and global operations; Leidos DevSecOps has been relied upon for some of the country's most critical missions time and time again.

Underpinning our capabilities is our investment in a comprehensive DevSecOps ecosystem.

Leidos continued investment in our local workforce, along with our practices, tools, facilities & partnerships ensures ongoing currency. Our customers benefit from our in-country capability, backed by our global scale and expertise.

We commit to our customer's missions, building an appreciation and empathy for their unique requirements. Together, we innovate to deliver break-through capabilities that protect lives, deliver efficiencies and make the world healthier. Which is why we are trusted, to support and secure some of the world's most complex and sensitive missions and workloads.

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LEIDOS' DEVSECOPS MISSION EXPERIENCE

MISSION EXPERIENCE

Logistics	Automation	Surveillance & Reconnaissance	Meteorology	Legislation	National Security	Health
Cyber	AIOps	Intelligence	GIS	Space	Maritime Autonomy	Maritime Acoustics

Search & Rescue

~2,000 People   50 Complex Projects

Healthier   Safer   More Efficient

LEIDOS' CUSTOMERS

AUSTRALIAN CUSTOMERS

Australian Government
Department of Defence

Australian Government
Department of Home Affairs

Australian Government
Bureau of Meteorology

Australian Government
Australian Taxation Office

GLOBAL CUSTOMERS
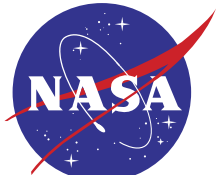
LEIDOS LAUNCHPAD - DEVSECOPS PLATFORM

Leidos Launchpad is a rapidly deployable, multi-tenant DevSecOps platform operating at an Official: Sensitive level. It provides multiple programs, agencies, partners and Leidos teams with an integrated suite of best-of-breed tools optimised for mission workloads. It accelerates and enhances mission outcomes for delivery in a secure yet collaborative environment. It is matched with a set of proven and embedded systems engineering, software development, operations and security processes.

KEY FEATURES

- **Sandpits** – rapidly deploy the environments you need in the cloud, when you need them and remove them when you're done. Don't pay for services you are not using
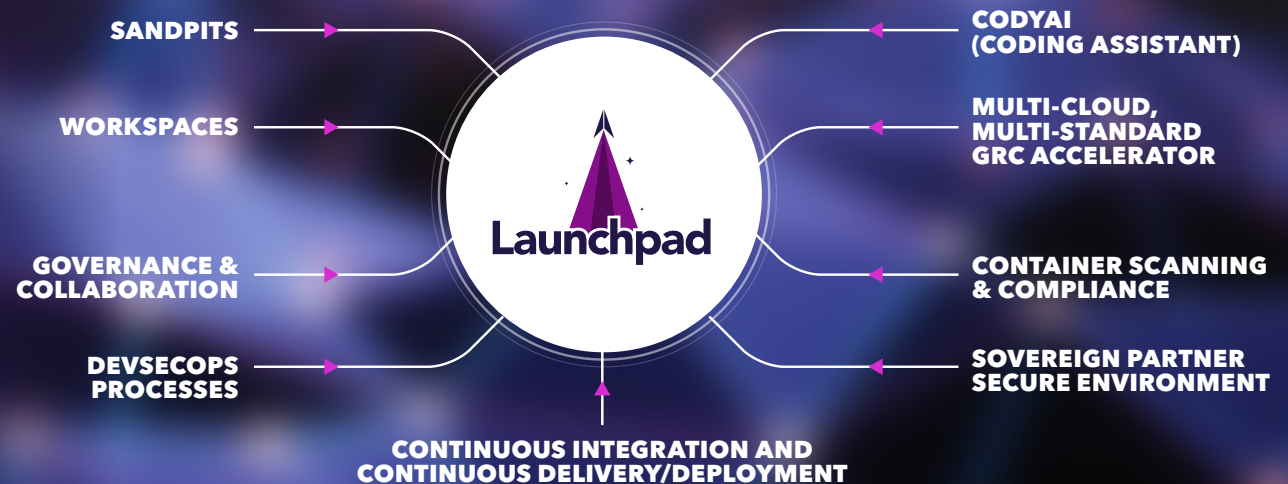- **Workspaces** - develop from your laptop with secure connections to the development environment where the cloud can do all the processing work. Enable your teams to work seamlessly from home, an office or a customer's site
- **Continuous Integration and Continuous Delivery/Deployment** - default best of breed CI/CD pipelines in minutes, or configure to use tools of choice
- **DevSecOps Processes** - integrated processes, procedures, workflows and collaboration regimes to manage scale and complexity leveraging the underlying technology platform
- **Governance & Collaboration** - manage tasks across a distributed team, the allocation of responsibilities and collaboration with stakeholders
- **CodyAI (Coding Assistant)** - leveraging the latest coding assistants to drive developer productivity, code transparency and quality
- **Multi-cloud, multi-standard GRC Accelerator** - simplify governance, risk and compliance to meet government standards like Essential 8 and the ISM. Support application of versions of standards and codify background knowledge of approaches to specific governing controls for specific cloud environments
- **Container Scanning & Compliance** - security scanning and code assessment by default

SANDPITS

WORKSPACES

GOVERNANCE & COLLABORATION

DEVSECOPS PROCESSES

Launchpad

CODYAI (CODING ASSISTANT)

MULTI-CLOUD, MULTI-STANDARD GRC ACCELERATOR

CONTAINER SCANNING & COMPLIANCE

SOVEREIGN PARTNER SECURE ENVIRONMENT

CONTINUOUS INTEGRATION AND CONTINUOUS DELIVERY/DEPLOYMENT

Launchpad is currently supporting world-class DevSecOps for numerous National Intelligence Community and Defence high-side programs.

Launchpad can be leveraged as a tenant on an existing Leidos platform, as your own platform which you deploy and manage on your own infrastructure/cloud or as an end-to-end service managed by Leidos.

LEIDOS ASCENDENT - DEV LOW, DEPLOY HIGH PLATFORM

Leidos Ascendent unlocks developers from high-side clearance constraints and secure facilities by enabling low-side development in Leidos Launchpad and high-side deployment into customer environments.

Customers enjoy access to a broader pool of resources, simpler access to industry-leading DevSecOps practices and regular updates of code deltas into their own high-side infrastructure.

It revolutionises mission software development and deployment whilst being able to cater for agency-specific infrastructure nuances.

KEY FEATURES

- **Simplifies dependency management** by presenting simulated air-gapped environments on the low-side

- **Manages software dependencies** in developed software to ensure libraries and files that would otherwise render code inoperable are packed for high-side deployment

- **Enables smooth porting of code and external capabilities** with little manual intervention. Code and capability deltas are effectively configuration managed throughout their life cycle to minimise the amount of data requiring movement from low to high

- **Effectively abstracts from high-side infrastructure dependencies** by duplicating platform configurations across segregated low and high-side environments.

SIMPLIFIES DEPENDENCY MANAGEMENT

MANAGES SOFTWARE DEPENDENCIES
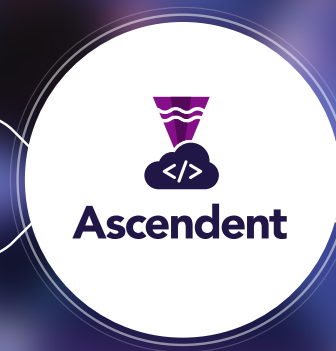
Ascendent

ENABLES SMOOTH PORTING OF CODE AND EXTERNAL CAPABILITIES

EFFECTIVELY ABSTRACTS FROM HIGH-SIDE INFRASTRUCTURE DEPENDENCIES
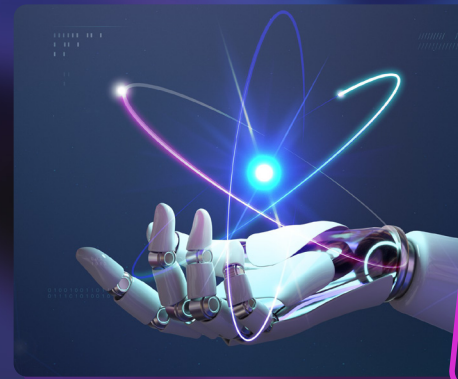
Leidos Ascendent was recently used on the low-side for AI model development using synthetic operational data. Trained models developed low-side were successfully deployed high-side onto customer notebooks and exposed to sensitive mission data.

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LA/TENT - AI FACTORY PLATFORM

Leidos L*AI*tent is a rapidly deployable mission AI factory boasting a comprehensive suite of industry-leading tools to drive simplicity, efficiency and mission outcomes in MLOPs.

It enhances the overall AI/ML life cycle enabling more AI capabilities across a greater range of mission use cases. It provides environments to ingest data from various sources, train models, test them and run scheduled jobs. It then deploys model applications and/or APIs with ease.

KEY FEATURES

- Data management, curation, pre-processing and splitting
- Experimentation & model training
- Packaging & deployment of ML apps
- Model management and validation
- Serving & monitoring
- 3rd party tool/LLM integration
- AI life cycle management

Leidos combines cutting edge technology that makes AI and ML algorithms reliable, resilient, and secure with tools that increase human trust by providing transparency and eliminating bias. However, human trust requires more than tools and technology.

It requires a robust test and evaluation process that assures these technologies are effective and safe to use. And most importantly, trust in AI requires a tailored process where the level of automation increases gradually through stages, reducing risk and assuring human control and governance.

Our disciplined, trust-based approach distinguishes our solutions and enables us to transform the way many industries operate. We have extensive experience in both the public and private domains and can bring our expertise to any environment where customers want to introduce AI and provide immediate impact to an organisation's technology strategy.

Our partnerships with public service and military customers give us the skills and knowledge to secure data, use it in the most efficient and scalable way, and apply the right AI and ML models to make it work for you.

LA/tent

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LEIDOS EDGE – CLOUD TO HARDWARE PLATFORM

Leidos Edge enables developers to push their latest releases onto niche hardware environments unique to mission platforms. Harnessing the best of Infrastructure as Code and the quality associated with high levels of automation, Leidos Edge changes the game for cyber-enabled platforms in today's mission environments.

Currently operating at an Official: Sensitive level, Leidos Edge is able to promote code onto specific onboard compute environments destined for land, sea or airborne operations.

DevSecOps needn't stop when you get beyond hyperscale environments and COTS hypervisors. Leidos enables development teams to smoothly transition from virtual (systems engineering & MBSE) to DevSecOps (in Leidos Launchpad) and then onto platform-specific hardware via Leidos Edge. Leidos Edge is currently enabled in our Maritime Platform Integration Facility in Mulgrave, VIC and our Airborne Systems Integration Laboratory in Hendon, SA. It supports maritime autonomy and airborne surveillance mission sets.

KEY FEATURES

- Automates code deployment onto bespoke hardware platforms

- Operates at Official: Sensitive level

- Engineering server staging point option for segregation of domains

- Connect to onboard computing proxies in a rack or production infrastructure in your platform

- Push software updates, patches and releases from your DevSecOps platform without manual scripting

Leidos Edge is deploying US-sourced LAVA maritime autonomy software onto the EMAPS boat at the Leidos Mulgrave Platform Integration Facility. Code patches, updates and releases are now faster, simpler and more consistent, security is improved and less resources are required.

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LEIDOS DIGEST - DIGITAL ENGINEERING PLATFORM

Leidos Digest enables complex systems engineering programs to be supported with a rapidly accessible and comprehensive suite of industry-leading MBSE tooling.

The consistent and rapid deployment of Leidos Digest enables programs to leverage mature processes, procedures and pre-developed artefacts to improve customer outcomes.

By standardising access to a consistent set of integrated Digital Engineering tools, Leidos has been able to build improved levels of capability maturity and experience. Best practices are maturing and lessons learned are being flowed into our emerging programs.

Teams are able to tailor and scale the use of the suite of tools to suit specific program requirements. In addition, with variable levels of Digital Engineering literacy projects are able to tailor the way they integrate traditional deliverables with MBSE models to suit individual project, supplier and customer nuances.

KEY FEATURES
- Tasking & ticketing
- Collaboration & governance
- Product Life Cycle Management (PLM)
- Modelling & Simulation
- Configuration Management
- Requirements Management
- Security Traceability to Essential 8 and ISM controls

LEIDOS BOOMERANG - AUKUS INFORMATION SHARING ENVIRONMENT

Leidos Boomerang is a global information sharing capability established to support multi-lateral capability development activities amongst AUKUS nations in support of Pillar I and II activities.

Intended to support secure defence/defense, government, industry and academia collaboration it is currently approved for use with export-controlled information. Ultimately, Leidos is targeting it for use at all classification levels.

KEY FEATURES
- Role & Attribute-based access control
- Data sovereignty for each nation
- Adherence to national security standards
- Data ingress and egress
- Capability catalogue to support corporate, DevSecOps, DigEng and BYO functions

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LEIDOS DEVSECOPS SERVICES

Beyond Leidos technology platforms underpinning DevSecOps we also provide additional services to enable end-to-end DevSecOps outcomes in mission environments.

KEY FEATURES

- Tools & processes for DevSecOps, data engineering and systems engineering

- Systems integration particularly for agile delivery of complex fixed-price outcomes

- Security architecture, engineering, GRC and tooling

- Specialist consulting

- Training

- Trade studies and product proving

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LEVERAGING DEVSECOPS TECHNOLOGY PARTNERSHIPS

Leidos Australia leverages an extensive suite of technology providers to underpin it's DevSecOps practices. This enables us to harness proven capabilities and functionality to improve developer productivity, security, engineering rigour and mission outcomes.

Containerisation Platforms	Hyperscale Cloud Providers	Data Integration	Vector Database	AI Assisted Coding Tools	Cyber Security	AI Security
Infrastructure as Code	Enterprise Messaging and Collaboration	Data Storage and Management	Cloud-native Container Orchestration	Data Visualisation & Observability	Container Orchestration	Source Code Management
Self-paced Learning Tools	Low-Code Workflow Integration	Issue and Task Tracking	Kubernetes management platform	Server Virtualisation	Knowledge Management & Collaboration	Continuous Integration/ Continuous Delivery
	Kubernetes Package Management	Log Management, Monitoring & Analytics	Security Vulnerability Scanning	Endpoint Detection & Response (EDR)	Endpoint Protection Platform (EPP)	Artifact Repository Management

Additional categories: Secrets Management & Data Protection · DevSecOps Tools · Configuration as Code · Monitoring and Alerting · Network Services and Security · Data Migration Tools · Vulnerability Assessment & Management · Static Analysis and Security Testing · Automated Testing Frameworks · Software Composition Analysis (SCA)

Leidos engaged strategically with SourceGraph to deploy their CodyAI coding assistant within the Leidos Launchpad DevSecOps platform. This is driving enhanced quality, productivity and training benefits for Leidos developers.

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ENABLING SOVEREIGN PARTNERS INCLUDING SMEs

Sovereign companies with niche capabilities can often struggle to develop underlying tooling, processes and systems to meet exacting government requirements in terms of systems engineering, software development, cyber security, governance, risk and compliance. Leidos enables sovereign partners to bring best of the industry-specific expertise by providing rapid access to mature, government-proven, secure platforms like Launchpad, Ascendent, LAItent, Edge and Digest.
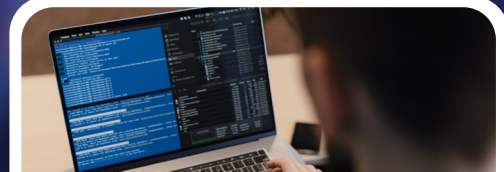
KEY ENABLED SOVEREIGN PARTNERS

eHEALTH:
- MediRecords
- ALCIDION
- COVIU
- FRED IT GROUP
- Precision Medical — Tracking you can Trust
- OnQ software

AIRBORNE MISSION MANAGEMENT
- ACACIA SYSTEMS

SENSING & MONITORING
- terra 15

LOW-CODE DEVELOPMENT
- outsystems

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TAKING COTS TECHNOLOGY TO THE NEXT LEVEL

Leidos has worked with many vendors to take their technology into high-side accredited environments. We've worked with customer preferences and their respective accreditation requirements to complete the design, integration, governance, risk and compliance activities to field approved architectures, security paradigms and usage of selected COTS technologies.

Leidos has extensive experience across most high-side agencies in Australia. In deploying Leidos-developed and COTS technologies into secure environments we liaise closely with the relevant authorities to determine organisational risk tolerances, platform preferences and relevant security controls. We integrate this understanding into our engagement with third party vendors and our own designs. We verify vendor supply chains and the implementation of security controls in the integrated platform to ensure their effectiveness. This often dictates early omission of candidate technologies that are incompatible with those security requirements. Customers are furnished with a fit-for-purpose solution/platform/technology that meets their security needs and will obtain the relevant approvals to operate.

APPROVED COTS TECHNOLOGIES

- CLOUD & CLOUD MANAGEMENT
- LOW CODE/ NO CODE
- MONITORING
- CONTAINERS & REPOS
- SECURITY
- DATA
- ACCESS CONTROL

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PEOPLE FIRST, MISSION ALWAYS

The secret to better mission software lies first in the people who build, secure and operate your solutions. This requires more than just talent though - it necessitates a holistic approach to every aspect of an individual's career journey, the organisation's culture and their engagement in your mission.

KEY FEATURES OF LEIDOS' PEOPLE & CULTURE

- Preferred relationships and privileged access to superior talent from Australia's best technical universities

- Award-winning intern and graduate programs inspire the next generation of developers and engineers

- In house leadership training to enhance the engagement, development and support to our teams

- AI-enabled coding assistant helps our team help themselves to gain greater context and build greater coding autonomy sooner

- Continuous upskilling via weekly tech talks, certified technology training, project execution training, hackathons, innovation challenges and mentoring

- Dynamic staff allocation and development

- Challenging internal research and development opportunities to pilot new solutions on emerging mission challenges

- Career frameworks to develop the breadth and depth of skills tailored to individual aspirations

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FOR MORE INFORMATION, PLEASE CONTACT US

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