



LOCKHEED MARTIN
Advanced Technology Laboratories

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**ADVANCING
NATIONAL SECURITY
THROUGH TRANSFORMATIONAL
TECHNOLOGY DEVELOPMENT**

Lockheed Martin Advanced Technology Laboratories (ATL) is an applied research and development center for scientific advancement in the areas of autonomy, robotics, artificial intelligence, command & control, human-machine symbiosis, spectrum operations, hypersonics and cyber. ATL engineers and scientists develop and apply leading edge technologies to our customers' most difficult problems and needs, redefining global security and transforming emerging ideas into solutions.

Embracing diversity of thought and collaborating with some of the best and brightest in government, industry, and academia, ATL is creating generation-after-next technology to help Lockheed Martin and our research and development customers. These customers include U.S. government service laboratories and the U.S. armed forces, the Defense Advanced Research Projects Agency (DARPA), and the Intelligence Advanced Research Projects Activity (IARPA) to maintain technology dominance.





AREAS OF RESEARCH & DEVELOPMENT



Command, Control and Understanding

- Target System Reasoning
- Dynamic Decision-making at Speed and Scale
- Predictive Analytics for Indication and Warning
- Adversary Modeling



Edge Computing

- Novel Computing Architectures with Tactical Relevance
- Optoelectronics and Advanced Packaging
- High Temperature Photonics and Electronics



Spectrum Operations

- Advanced Physics, Processing and Sensors
- Data Fusion and State Estimation
- Embedded Designs and RF Signal Processing
- RF Spectrum-based Machine Learning



Collaborative Autonomy and Advanced Robotics

- Collaborative and Tactical Autonomy
- Counter-UAS
- Swarm/Counter-swarm
- Extreme Robotic Mobility and Manipulation for Manufacturing Operations



Human Machine Collaboration

- Human Sentiment and Influence
- Deep Fake Detection
- Human Cognitive State Modeling
- Knowledge Sharing and Assessment



Trusted Intelligent Systems

- Verification and Validation (V&V) for Autonomy
- Trustworthy AI
- Machine Reasoning
- Assured Human Systems

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