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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.

Visit the ATL Website

Explore ATL Career Opportunities

AREAS OF RESEARCH & DEVELOPMENT

Assured Autonomy and Systems

- Collaborative and tactical autonomy
- Extreme robotic mobility and manipulation
- Verification and Validation (V&V) for autonomy
- Assured symbiosis
- Physiological, biochemical and cognitive sensing technologies

Spectrum Operations

- Advanced physics, processing and sensors
- Data fusion and state estimation
- Embedded designs and RF signal processing
- Optoelectronics and advanced packaging
- RF Spectrum-based machine learning

Human and Social Systems Engineering

- Advanced machine learning techniques for rapid analysis and augmentation
- Human sentiment and influence
- Model-based analytics for forecasting instabilities and outcomes
- Frameworks and techniques for ingesting, indexing, integrating and analyzing big data sets

Command, Control and Understanding (C2 & U)

- Analyst-machine collaboration for sense making
- High complexity planning and control

Cyber

- Cyber infrastructure
- Malware analysis
- Automated cyber testing
- Secure and high performance computing

Hypersonics

- High temperature photonics and electronics
- High fidelity multi-physics modeling and simulation

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