



# Northrop Grumman's Microelectronics Center

Advanced Technology  
Laboratory (ATL)

## TINY TECH, ANY MISSION

Northrop Grumman's Microelectronics Center is comprised of two U.S.-based government-Trusted foundries and advanced packaging facilities. We design and deliver millions of mission-critical microelectronics annually to support next-generation defense and commercial systems. From design to fabrication, our mission-tailored microelectronics solutions deliver unparalleled performance for any application.

## AT THE EDGE OF INNOVATION

Northrop Grumman's ATL in Linthicum, Maryland, stands at the forefront of semiconductor innovation. For over 50 years, we have combined expertise in multiple processing nodes, electrical testing, environmental and QCI screening and failure analysis, all under one roof for defense and commercial applications. Many of the brightest minds have launched their careers and pioneered groundbreaking research here.

## ENDURING EXCELLENCE

As a high mix, Department of Defense volume production and research and development facility, we are experts in design, wafer fabrication, testing and assembly, delivering high-quality products tailored to diverse system requirements. Our capabilities in SiGe, GaAs, GaN, and SiC materials enable us to create reliable, high-performance microelectronics for various radio frequency and power applications. We continuously push performance

boundaries through ongoing development in GaN, designing the next generation of microelectronics with our SLCFET chip and other wide band gap materials. Our specialized processes ensure the production of mission-critical microelectronics that can withstand the harshest of environments.

## ADVANCED SEMICONDUCTOR SOLUTIONS

ATL offers comprehensive foundry services for a range of semiconductor products. From Silicon Mixed-signal, Analog, or Digital ASICs to GaAs or GaN Compound Semiconductor MMICs and Silicon or Silicon Carbide Power Transistors. Standard products include:

- Radiation Hardened and High Temperature EEPROMs
- 16:1 Analog Multiplexers (Radiation Hardened)
- Bipolar RF Power Transistors
- GaAs RF MMIC Foundry Service
- Silicon Foundry Service
- Design Services
- Radiation Analysis and Testing

## OUR SERVICES

ATL offers Microelectronics Test, Assembly and Product Engineering services across a high mix of internally and externally fabricated products. With ~32,000 ft<sup>2</sup> of cleanroom space and more on the way, the test and assembly branch of ATL continues to pioneer unique solutions for the industry.

## LEADING IN MICROCHIP MANUFACTURING

88,000 square feet of wafer fabrication cleanroom

1,000 experienced technical staff and 75+ subject matter experts

30 production processes, with more in development

14 different wafer types, ranging in size from 25.4 mm to 300 mm

100 space payloads, including the James Webb Space Telescope

3 million microchips delivered annually

- **Develop** – Automated wafer and packaged device Acceptance Test Procedure (ATP) solutions are developed using commercial Automatic Test Equipment (ATE) and Radio Frequency (RF)/Mixed Signal Test Equipment.
- **Build** – Tested wafers can be inspected, thinned, diced, sorted and assembled into package devices before final electrical testing.
- **Integrate** – Device electrical performance, fabrication quality and manufacturing pedigree are thoroughly recorded and evaluated before the product is delivered to the next higher assembly.

For more information contact:  
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[ngc.com/microelectronics](http://ngc.com/microelectronics)

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