

Northrop Grumman Microelectronics Center (NGMC) Supports Next Generation Packaging Technologies

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Next gen packaging technologies such as GaN on SiC for RF high powered microwave modules and advanced domestic packaging facilities tailored to the DoD are urgently needed to support the warfighter. NGC is a trusted partner in supply chain management and is ready to fulfill this need tailored to the military and space community.

At Northrop Grumman, our portfolio of technologies, products, services, and solutions are aligned to key national security priorities. Our company's four operating sectors work together to help our customers meet their most complex challenges across the air, cyber, land, sea and space domains. NGMC Northrop Grumman Microelectronics Center is housed within our Mission Systems Sector.

Northrop Grumman Mission Systems is a leader in advanced mission solutions and multifunction systems. Mission Systems creates military radar, sensors and related products, Airspace Management radar systems, and battlefield surveillance systems and signal processing capabilities. NGMC provides flexible, assured microelectronics to the DoD, USG, & external customers. NGMC contains multiple facilities (two semiconductor foundries (CA and MD) and our advanced packaging facility in FL. The Advanced Technology Lab (ATL) sit located in Linthicum, Maryland delivers Silicon & Compound Semiconductor capabilities for RF products. The Micro-Line facility located in Apopka, Florida establishes wafer bumping and test source tailored for defense applications. The Space Park site Located in Redondo Beach, California offers communication products for challenging military and commercial wireless, high-power amplifier applications. In 2024, Northrop Grumman opened access to its Microelectronics capabilities and capacity to both the defense industrial base and commercial customers. To support this thrust, NG has re-organized our Microelectronics Sites, staff & capabilities into the Northrop Grumman Microelectronic Center (NGMC). NG's intention is to continue to address Microelectronics gaps which the domestic commercial microelectronic industry hasn't. Value to you is a Microelectronics partner who understand performance and quality impact to USG systems along with the criticality of speed. We have systems & controls in place to protect your IP and proprietary information. NGMC's next steps will be to provide engagement opportunities with your Product Architects and Chief Engineers.



Louise Sengupta

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Dr. Louise Sengupta is currently the Director of Business Development and Capture for Northrop Grumman Microelectronics Center (NGMC) that includes both Mission Systems and Space Systems sectors. She is responsible for growing the business and creating the go to market strategy for all new business in microelectronics across all services and across the company.

From 2018 to 2022 she was the Director of Advanced Electronics at Northrop Grumman Mission Systems and has >30 years of experience leading businesses and technology in microelectronics and is an expert in advanced sensing and advanced materials fabrication. She joined Northrop Grumman in 2015 and expanded the work in digital AESAs, trusted electronics, advanced imaging and advanced processors.

Prior to this, from 01/2006 to 07/2015, she was the Director of Advanced Sensors, for BAE Systems – Columbia, MD and served as an Engineering Fellow for BAE Systems and was the first woman to be elected to this position.

From 05/1998 to 01/2006, Dr. Sengupta founded and served as CEO/CTO of Paratek Microwave that was acquired by Blackberry RF in 2011. Paratek's product lines included phased array antennas and tunable RF components. The technology was based on intellectual property that she invented while at ARL (Army Research Laboratory) from 05/1991 to 05/1998.

She graduated with a Ph.D in Electrical Engineering from the University of South Florida in 1990 and has over 50 publications and over 70 issued patents.

Northrop Grumman is a technology company, focused on global security and human discovery. Our pioneering solutions equip our customers with capabilities they need to connect, advance, and protect the U.S. and its allies. Driven by a shared purpose to solve our customers' toughest problems, our 95,000 employees define possible every day.