



# Advanced Electronics Community of Interest



## Challenge

Highly capable electronics are critical and ubiquitous. Ensure DoD has affordable access to leading edge high performance electronics to avoid technology surprise.

## Vision

Create and exploit S&T advances for leap-ahead capabilities for superiority in EM Spectrum Warfare from DC to light, advanced signal processing components, and trusted electronic components.

## Key Technology Opportunities

- Trustworthy Electronics
- Wide Bandgap Semiconductors
- Reconfigurable, Frequency-Agile Devices and Circuits
- Vacuum Electronics at mm-Wave
- 3D Integration
- Integrated Photonic Circuits
- Neuromorphic Electronics
- IC's Beyond Moore's Law
- Quantum Information & Sensing Technologies

## Industry Engagement Opportunities

- Defense Innovation Marketplace
- NDIA Annual Science & Engineering Technology Conference
- GOMACTech

## For Additional Information, Please Contact:

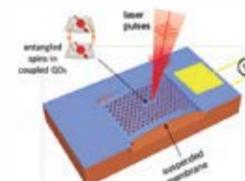
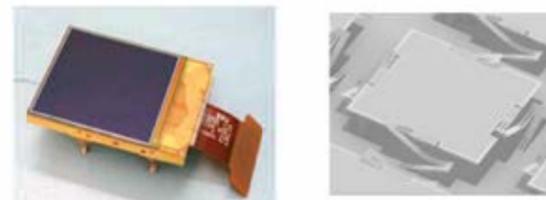
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## Technical Focus Areas

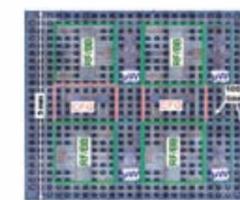
### Electro-Optics

EO and IR Sensors & Sources

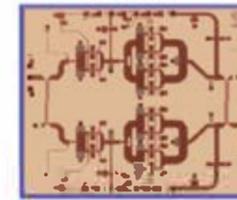


Quantum Devices

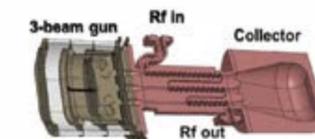
### RF Components



Reconfigurable Adaptive RF Electronics



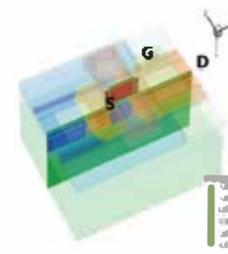
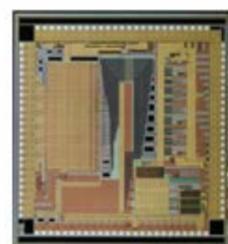
mmW GaN High Power



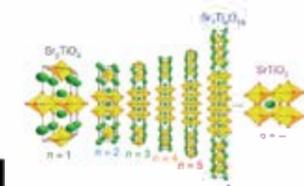
mm Vacuum Electronic Devices

### Micro-Nano Electronics

IC's at Faster Timescales



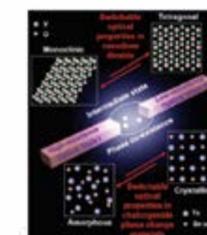
Rad Hard By Design



Complex Oxide Heterostructure Electronics

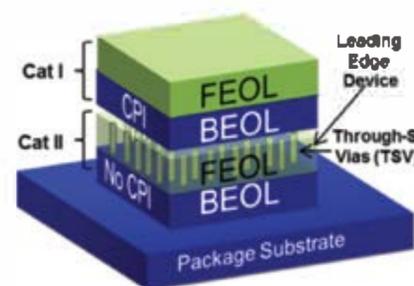


Multibeam Nanolithography

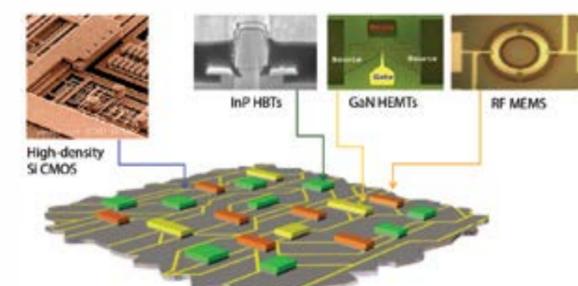


Phase Change Materials

### Electronics Integration



3D Integration and Advanced Packaging



Heterogeneous Integration