Georgia Tech Research Institute (GTRI)

Since the 1950s, the Georgia Tech Research Institute has maintained a strong research relationship with U.S. national security and defense based on early/seminal work laying the foundation for now common-place techniques such as sputtering and molecular beam epitaxy.

Today, materials research at GTRI develops ion-traps for quantum computing, advanced diamond-silver composite heat-sinks for phased array radars, carbon nanotube-based electron emitters for satellite propulsion, advanced phosphors for displays, meta materials for signature reduction and antennas, and rare-earth substitute materials for magnets. Over the past decade, GTRI has contributed to materials innovation in multiple arenas:

- Plastic Package De-encapsulation
- Phosphor Technologies and Devices
- Carbon Nanotube Growth and Application
- Multi-functional Materials Development and Application
- Nanotechnology Solutions for Biomedical Applications
- Materials Growth
- Thin Film Deposition
- Simulation and Modeling
- Device and Circuit Fabrication
- Wide Band Gap Semiconductors
- GaN HFET development
- On-wafer RF characterization
- Microelectronic Device and Circuit Packaging
- Flat Panel Displays
- Electroluminescent devices
- Solid State Lighting
- Integrated Optoelectronics
- Photonics-based time delay units for radar

http://www.gtri.gatech.edu/