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# GTRI Signal

MONTHLY RESEARCH NEWSLETTER



## Welcome!

We are delighted to introduce GTRI's first-ever monthly research newsletter, "GTRI Signal," which highlights our latest technical achievements, celebrates our talented and diverse workforce, and showcases top media headlines featuring our innovative research and expertise.

At its core, this newsletter, which we will distribute during the third week of each month, underscores GTRI's mission and reason for existing: To enhance the state of Georgia's economic development, serve national security, educate future technology leaders, and improve the human condition. Thank you for joining us on this exciting new journey.

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## RESEARCH NEWS



### **Research Seeks to Detect SARS-CoV-2 Virus in Building Air**

Tests to detect SARS-CoV-2 infection in humans have become more widely available as the Covid-19 pandemic enters its third year. But rapidly monitoring for and detecting infectious virus aerosols within indoor environments is currently not possible.



### **Collaborative Weapons Work Together to Respond to Changing Conditions**

GPS and laser guidance systems enabled smart weapons to hit predesignated targets with amazing precision. Now researchers at the Georgia Tech Research Institute (GTRI) are helping develop smarter weapons that are able to work together to identify, target, and update target selections after launch in response to changing conditions such as the last-minute identification of new targets.

[Full Story](#)

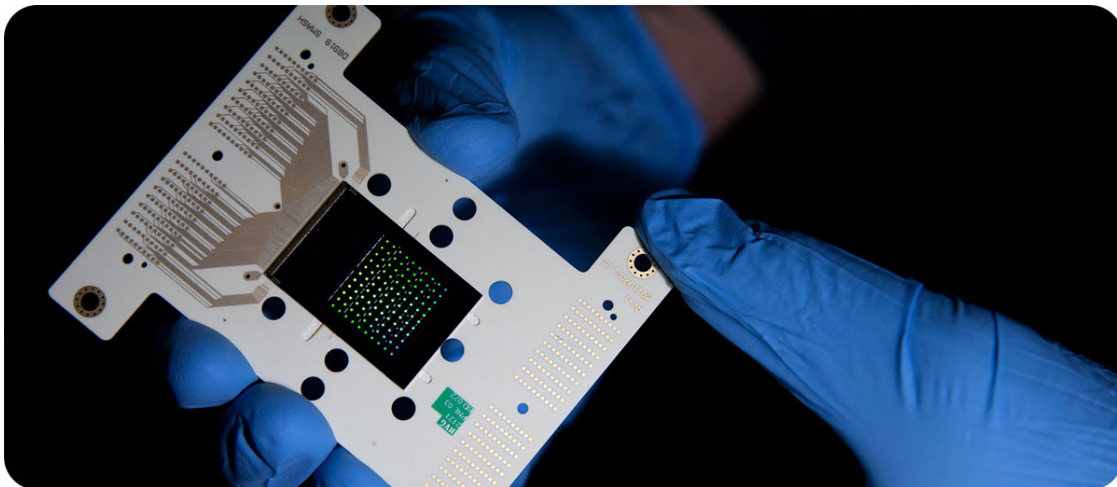
### **Applying Commercial Airline Maintenance Best Practices to Military Aircraft**

A collaboration between the Georgia Tech Research Institute (GTRI), Atlanta-based Delta Air Lines and the U.S. Air Force Logistics Directorate's (HAF/A4L) Tesseract Office of Innovation is helping evaluate the applicability of commercial airline maintenance practices to military aircraft fleets.



## [VIP Program Creates a Pipeline of Future Technology Leaders](#)

The Vertically Integrated Projects (VIP) Program is an education program supported by Georgia Tech and the Georgia Tech Research Institute (GTRI) that allows undergraduate and graduate students to earn academic credit for working with faculty on projects they don't typically encounter in a classroom setting.

[Full Story](#)

## [Researchers Test Microchip for High-Density Synthesis of Archival Data Storage DNA](#)

Researchers have made significant advances toward the goal of a new microchip able to grow DNA strands that could provide high-density 3D archival data storage at ultra-low cost – and be able to hold that information for hundreds of years.

[Full Story](#)





### **Developing 5G Solutions for the State of Georgia, Nation**

Researchers at the Georgia Tech Research Institute (GTRI) are exploring ways to use 5G – a mobile technology that promises download speeds many times faster than current 4G LTE wireless networks and significantly lower latency times – to advance national security and ensure rural parts of Georgia have equitable access to high-speed broadband services, among other applications..

[Full Story](#)



### **Claims Database Will Provide New Information on Healthcare in Georgia**

A new and comprehensive database of healthcare claims paid in the state of Georgia will help identify disease trends, provide information for making public policy decisions, facilitate new research – and offer a way for consumers to determine the average cost of common procedures such as knee replacement or diagnostic testing such as MRIs.

[Full Story](#)

## FEATURED STORY



### [Wavelet Technology Allows Measurement of Long-Distance Infrasound](#)

Phenomena that generate a type of low-frequency sound known as infrasound could become easier to detect and measure thanks to a new technique under development at the Georgia Tech Research Institute (GTRI). Infrasound, which cannot be heard by humans, is produced by tornados, earthquakes, explosions, wind turbines, the motion of large vehicles, aircraft and many other natural and human-created sources.

[Full Story](#)

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## GTRI PEOPLE



### [Celebrating Inclusive Excellence: Margarita Gonzalez and a Nontraditional GTRI Path](#)

Margarita Gonzalez holds the title senior research associate at Georgia Tech Research Institute (GTRI). However, that title doesn't tell the whole story. Her nontraditional career path, building on her diverse background, enables her to create unique value for GTRI both internally and externally.

## GTRI IN THE NEWS

[DNA Data Drives Point Toward Exabyte Scale \(IEEE Spectrum\)](#)

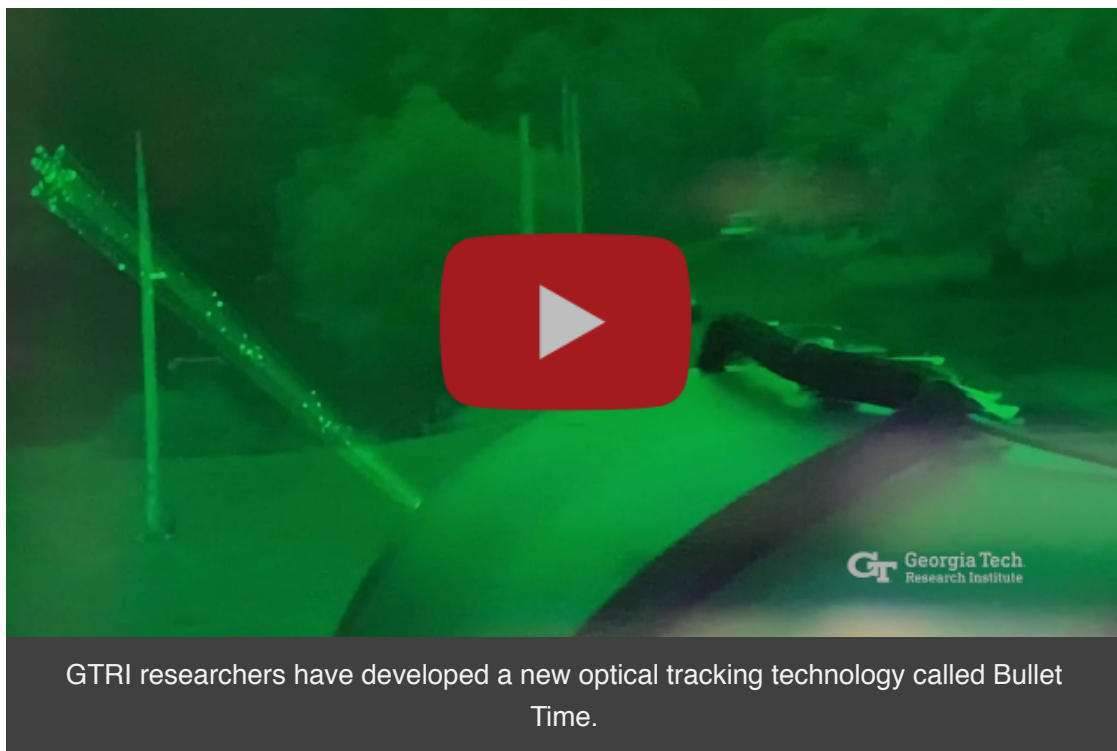
[Hypersonics Research Soars \(AFCEA Signal\)](#)

[New approach transports trapped ions to create entangling gates \(Phys Org\)](#)

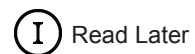
[Researchers at Georgia Tech developing device that scans air for COVID \(11Alive WXIA-TV\)](#)

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## FEATURED VIDEO



For more research news and features, please visit our [2021 annual report](#).



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