

CREATING THE NEXT in CYBERSECURITY SOLUTIONS

Georgia Tech is at the forefront of creating new cybersecurity solutions with immediate application in the real world — working to strengthen national defense, ensure economic continuity, and protect individual freedom. Our aim is to anticipate, overcome, and continually resist emerging cyberthreats through expert insight, innovative breakthroughs, and cutting-edge curriculum.

The Institute houses numerous multidisciplinary academic labs dedicated to cybersecurity, as well as the Georgia Tech Research Institute [GTRI] — one of just 14 University Affiliated Research Centers* accredited by the U.S. Department of Defense. Such close collaboration between basic and applied research organizations within a university is rare in cybersecurity.

Georgia Tech is an active research and training partner to the U.S. armed forces and our research faculty include former military and government intelligence personnel with experience in nation-state cyberwarfare response.

**Charter held with the U.S. Army*

EDUCATION AND TRAINING

» Academic Degree Programs

Georgia Tech offers 12 degree pathways for future cybersecurity professionals across electrical and computer engineering, public policy, and computer science.

» Georgia Tech Professional Education

Offers more than 130 courses — including a Cybersecurity Certificate — that address the most urgent topics for working professionals and military operations.

Has provided cybersecurity courses and programs to more than 1,990 professionals to date from Georgia, the United States, and around the world.

» Georgia Manufacturing Extension Partnership (GaMEP)

Provides training and technical assistance to manufacturers online and on-site throughout the state, with support from ten regional offices including our Atlanta campus and Augusta.

CORE CYBERSECURITY RESEARCH AREAS

» Privacy Policy

How should the private sector use personal information? Should the government be able to access communication in transit or at rest?

» Privacy Engineering

How can consumers securely interact with technology? What are the best practices?

» Attribution

How can we know who is responsible for a cyberbreach? What can be done when we cannot attribute the breach?

» Risk Management

How do we quantify and assess risk in real time? Who do we watch? What do we look for?

» Machine-to-Machine Trust

How should people, machines, and networks establish trust? How does the trust relationship change over time?

» Cyber Physical Systems

What inputs and outputs should be part of the most fortified embedded and physical systems?

20+

year history of
cybersecurity
support for military,
intelligence, and
commercial sectors

7

units engaged,
including computing,
engineering, public
policy, business,
professional education,
national defense, and
information technology

13

cybersecurity-related
labs and centers

600+

cybersecurity researchers
(faculty, scientists, and
employed students)

\$183M+

investment dollars attracted
by startups borne from
Georgia Tech research

\$144M+

in cybersecurity research
in FY18

100K

malware samples analyzed
daily for industry and
government partners

CREATING THE NEXT in CYBERSECURITY SOLUTIONS



THOUGHT LEADERSHIP

For nearly two decades, Georgia Tech has ranked among the top 10 public universities in the U.S., with our undergraduate and graduate programs for computer science ranking in the top 10 nationally and fifth in the world.

Georgia Tech's cybersecurity research is regularly accepted into premier, peer-reviewed academic conferences and honored by independent organizations.

Our researchers, faculty, and alumni hold appointments as cybersecurity advisors and assist top federal officials, Congress, the National Academy of Sciences/National Research Council, and major corporations.

» Commission on Enhancing National Cybersecurity

Georgia Tech was represented among the 12 appointees to the 2016 Commission, which outlined six imperatives to strengthen national security, workforce training, and public understanding of cybersecurity.

» Emerging Cyber Threats, Trends, and Technologies Report

Since 2007, this annual report has highlighted concerns about global manipulation of information, health care fraud, data encryption, and other issues likely to affect society in the year ahead.

» Georgia Tech Cybersecurity Summit

Now in its 16th year, this annual conference at Georgia Tech brings together more than 300 attendees from government, industry, and academia to prepare for the newest challenges in cybersecurity.

Read the latest Georgia Tech cybersecurity news at:

cyber.gatech.edu/news-center

ECONOMIC DEVELOPMENT IMPACT

Georgia Tech has a strong track record for business development and commercialization of research discoveries in many areas, including cybersecurity:

- Georgia Tech's Advanced Technology Development Center (ATDC), the state's technology incubator, is currently incubating seven companies in the cybersecurity space.
- GT Procurement Assistance Center is helping 15 firms across the state with cybersecurity interests.

Explore Georgia Tech's growing portfolio of cybersecurity technology available for licensing:

technologies.gtrc.gatech.edu

Georgia Tech is a premier partner for access and insight to emerging cybersecurity solutions.

cyber.gatech.edu

Georgia Tech provides key strategic support for cybersecurity in the defense, financial, manufacturing, supply chain, and health care IT sectors.