

RESEARCH SCOPE

Georgia Tech is a major center for advanced technology in Georgia and the Southeast. With faculty in excess of 1,700 and graduate students in excess of 4,000, the Institute conducts research of national significance, provides research services and facilities to faculty, students, industry, and government agencies, and supports the economic and technological growth of the state. Research operations are carried out through schools, centers, and laboratories, each performing research in a particular field of interest.

National Science Foundation statistics place Georgia Tech third in the nation for overall volume of engineering research and development expenditures, behind only Johns Hopkins University and the Massachusetts Institute of Technology (for fiscal year 1998 and last posted period). In dollar volume of research, Georgia Tech research areas ranked in the nation's top ten including aeronautical/astronautical engineering (4th), civil engineering (6th), electrical engineering (1st), computer sciences (5th), mechanical engineering (6th) and metallurgical and materials engineering (9th).

Most of the research is supported by contracts with government organizations and private industry. The Georgia Tech Research Corporation, a non-profit organization incorporated under the laws of the state of Georgia, serves as the contracting agency. It also licenses intellectual property created at Georgia Tech, including patents, software, trade secrets, and other similar properties.

Georgia Tech is proud of the diversity and strength of its research programs and conducts research in a wide range of engineering, science, computing, architecture, public policy, social sciences, management, and related areas. Some examples of current research topics include:

Biological/Health related: optical biosensors for detecting food pathogens, electron transport in DNA strands, acoustical control in hospitals and nursing homes, a unique biomaterial for replacement arteries and cartilage, intervention and prevention of falls in the elderly, prosthetics research and land mine survivors, mechanical regulation of skeletal muscle length, deformation of DNA and protein molecules under mechanical forces, medical imaging, digital speech processing, models of prion and amyloid diseases, gene identification in DNA genomes, engineering a bioartificial pancreas, microneedles for drug delivery, and rational design of drugs.

Environmental/Quality of Life related: development of online identity, near-critical water as a replacement solvent, measuring small-particle air pollutants, air emissions as a factor of vehicle age, early detection of tornadoes, accountability in scientific research, societal impacts of the Information Revolution, underwater acoustics, the ecology of temperate and tropical reef communities, railroad crossing safety management system, the "Aware Home," mathematics learning in a 3-D multi-user environment, using multimedia to enhance the study of film, experimental courtrooms, strategies for metropolitan Atlanta regional transportation and air quality, assistive technology, system infrastructure for ubiquitous presence, and remote inspection of power line crossarms.

Manufacturing/Business/Military related: business costs of environmental permitting, magnetic resonance imaging of industrial processes, ultra-low VOC coating materials, an electronic system for tracking military inventory, bistatic imaging and radar cross section of military vehicles, wearable computers for "just in time" training, intelligent turbine engines, aerospace systems analysis, rotorcraft technology, security of information and electronic commerce systems, electronic and mechanical properties of carbon nanotubes, the dynamics of aircrew communication, magnetic nanocrystal self-assembled superlattices, honeycomb structures for thermal dissipation, smart materials, magnetic nanoparticles, lighting up single molecules, mathematical modeling of MEMS devices, symbolic dynamics from experimental data, fluid flow controls with MEMS devices, precision machining, rapid prototyping, mechanical system diagnostics, assembly of electronic packages, software-enabled control for intelligent uninhabited aerial vehicles, advanced electronic interconnection, war and reconciliation factors, algorithms for paint color matching, standardizing test and evaluation process, applying computer imaging in the poultry industry, low-cost electronic warfare training system, stochastic networks in communications and manufacturing, research in large-scale integer programming, avoiding artificial bottlenecks in semiconductor wafer fabrication facilities, use of cockpit display of traffic information for increased pilot involvement, tactical mobile robots, and multi-modal shipment planning.

Nearly one million square feet of floor space is devoted to research incorporating a number of buildings on the Georgia Tech campus, as well as several off-campus facilities. The Georgia Tech Research Institute manages about fifty percent of the research and extension activities and centers, academic schools, and colleges manage the remaining fifty percent.





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Table 6.1 Awards Summary by Unit, Fiscal Years 1996-2000**

Unit	1996	1997	1998	1999	2000
	Number				
Engineering	508	573	568	551	681
Architecture	33	35	33	48	45
Computing	49	63	61	50	72
Ivan Allen	24	17	26	23	29
Management	—	—	—	—	1
Sciences	173	183	187	203	183
Research Centers	213	240	252	225	224
GTRI	526	546	499	570	615
Total	1,526	1,657	1,626	1,670	1,850
	Amount				
Engineering	\$46,884,177	\$52,241,764	\$54,712,417	\$58,781,723	\$74,865,404
Architecture	2,259,974	1,817,423	3,045,586	4,863,190	3,021,809
Computing	5,204,004	6,423,365	5,559,392	6,191,128	10,710,535
Ivan Allen	2,069,628	1,787,567	2,655,489	1,950,533	2,032,538
Management	—	—	—	—	310,000
Sciences	17,094,987	16,472,500	18,337,806	24,729,729	17,499,163
Research Centers	15,655,105	15,461,441	13,979,899	20,801,389	16,630,914
GTRI	84,200,497	103,061,780	88,724,451	99,760,785	107,387,769
Total	\$173,368,372	\$197,265,840	\$187,015,040	\$217,078,477	\$232,458,132

** This summary includes research and other extramural support such as fellowships, traineeships, training grants, sponsored instruction, and instructional equipment grants. It does not include gifts or grants awarded through the Georgia Tech Foundation.

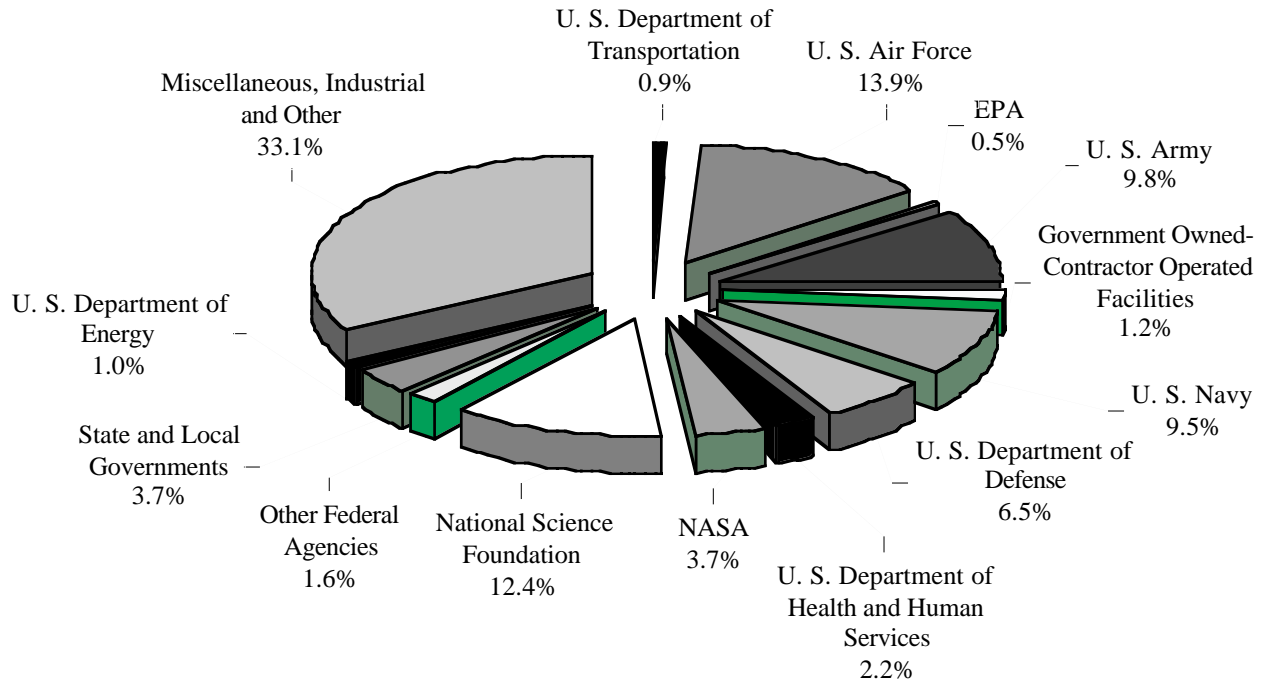
Table 6.2 Research Grants and Contracts* by Awarding Agency, Fiscal Year 2000

Awarding Agency	Amount	Percent of Total
U. S. Air Force	\$ 29,867,988	13.9%
U. S. Army	20,918,791	9.8%
U. S. Navy	20,320,608	9.5%
U. S. Department of Defense	14,014,243	6.5%
U. S. Department of Energy	2,241,264	1.0%
U. S. Department of Health and Human Services	4,604,975	2.2%
U. S. Department of Transportation	1,981,436	0.9%
Environmental Protection Agency	964,578	0.5%
National Aeronautics & Space Administration	7,898,936	3.7%
National Science Foundation	26,561,808	12.4%
Other Federal Agencies	3,534,247	1.6%
Total Federal Government	\$132,908,874	62.0%
Government Owned-Contractor Operated Facilities	2,571,264	1.2%
State and Local Governments	7,859,882	3.7%
Miscellaneous, Industrial and Other	71,057,084	33.1%
Grand Total	\$214,397,104	100.0%

* This summary includes research *only* and does not include other extramural support such as fellowships, traineeships, training grants, sponsored instruction, instructional equipment grants and gifts or grants awarded through the Georgia Tech Foundation.

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Fig. 6.1 Research Grants and Contracts By Awarding Agency, Fiscal Year 2000





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Table 6.3 Awards Summary Detail, Fiscal Year 2000

Unit	Proposals		Awards*	
	Number	Amount	Number	Amount
College of Engineering				
Dean, College of Engineering	21	\$6,803,446	42	\$6,127,591
Aerospace	115	40,307,666	92	9,682,222
BME	16	2,820,583	12	680,895
Chemical	49	10,851,117	35	3,632,247
Civil	118	21,804,895	80	7,865,285
Electrical	194	74,751,350	216	25,938,072
Industrial & Systems	53	7,639,397	40	3,937,896
Materials	49	31,038,140	47	4,197,160
Mechanical	157	59,929,643	105	9,770,287
Textile & Fiber	16	4,301,350	12	3,033,749
Total	788	\$260,247,587	681	\$74,865,404
College of Architecture	60	\$8,238,239	45	\$3,021,809
College of Computing	101	\$66,056,666	72	\$10,710,535
Ivan Allen College	33	\$3,942,411	29	\$2,032,538
DuPree College of Management	2	\$742,983	1	\$310,000
College of Sciences				
Dean, College of Sciences	0	\$0	0	\$0
Biology	36	18,338,707	17	1,828,475
Chemistry	64	27,208,648	38	4,822,734
Earth & Atmospheric Sciences	82	21,606,678	43	4,094,474
Health Sciences	13	2,600,579	5	111,119
Mathematics	23	4,101,456	17	752,493
Physics	28	8,287,787	26	2,162,630
Psychology	24	8,268,206	18	2,120,044
CEISMC	21	10,468,498	16	1,486,794
MDI	1	20,400	3	120,400
Total	292	\$100,900,959	183	\$17,499,163
Research Centers	180	\$56,933,532	224	\$16,630,914
Georgia Tech Research Institute				
ARL Arlington Research Laboratory	21	\$12,754,691	28	\$3,522,939
ATAS Aerospace, Transportation, and Advanced Systems	90	97,591,873	71	13,169,655
SEAL Sensors and Electromagnetic Applications Laboratory	99	31,927,473	150	16,164,020
ELSYS Electronic Systems Laboratory	73	39,977,911	89	19,221,209
STL Signature Tech. Laboratory	34	6,712,884	41	14,457,086
ITTL Information Tech. and Telecommunications Laboratory	92	47,737,351	72	19,731,353
HRO Huntsville Research Operations	21	4,118,140	21	4,118,168
EOEML Electro-Optics, Environment, and Materials Laboratory	145	28,946,561	143	17,003,339
Total	575	\$269,766,884	615	\$107,387,769
Institute Total	2,031	\$766,829,261	1,850	\$232,458,132

* Awards include *only* the sponsored activity handled by the Office of Sponsored Programs and do not include gifts or grants for research awarded through the Georgia Tech Foundation.

Source: Office of Sponsored Programs

SPONSORED PROGRAMS

The Vice Provost for Research and Dean of Graduate Studies has the responsibility for all research programs conducted by the Georgia Institute of Technology. He works with the deans, chairs, directors, and other department heads in establishing research policies and procedures. In partnership with the Office of the President, the Georgia Tech Research Corporation (GTRC) and its subsidiary, Georgia Tech Applied Research Corporation (GTARC), the Office of Sponsored Programs (OSP) provides program development assistance as well as overall contract management for the sponsored research program at Georgia Tech. Organizationally, OSP reports to the Associate Vice Provost for Research who also serves as the General Manager for GTRC and GTARC. The Associate Vice Provost for Research is responsible, in cooperation with Grants and Contracts Accounting, for negotiating facilities and administrative (indirect) cost rates. Also, the Office of the Associate Vice Provost is responsible for the design and maintenance of an interactive automated database which integrates all contract administration functions and is used for management control and reporting. The database is used to produce and distribute a variety of periodic management reports including: a) a monthly listing of all deliverables due the following month, b) a quarterly overdue deliverables report, c) a monthly report of all sponsored activity, and d) a monthly report of cost-sharing commitments. In addition, specialized (ad hoc) reports are prepared on request.

Prior to funding, OSP provides assistance that leads to the submission of formal proposals. OSP is responsible for submitting all proposal and grant applications for sponsored research and instruction from GTRC, GTARC and the Georgia Institute of Technology. Contracting Officers review proposals and cost estimates for compliance with sponsor requirements and Institute policies, and prepare the business portion of proposals. Contracting Officers serve as the sponsor's point of contact for business matters during the evaluation process, negotiate the final terms of the contract or grant, and sign, in conjunction with an officer of GTRC or GTARC, the resulting agreement.

After sponsored research projects are funded, OSP has the responsibility for monitoring active grants and contracts. Upon receipt of a signed agreement, an initial in-depth review of the award documents takes place and relevant initiation forms are prepared and distributed. Complete project files are established and maintained for the duration of the program. All post-award project modifications to existing programs are processed by OSP. OSP is also responsible for the preparation and monitoring of subcontracts and consulting agreements issued by Georgia Tech under sponsored programs. Liaison with project sponsors is maintained by OSP Contracting Officers through responses to contractual situations or requests on day-to-day administrative matters. Responsibilities include monitoring programs to see that potential problems in meeting contractual obligations (i.e., assurance of satisfactory performance, submission of all deliverables, etc.) are called to the attention of Georgia Tech management in a timely manner. OSP is responsible for all contractual closeout actions, i.e., submission of final billing and research property and patent reports, accounting for the disposition of classified documents, and verification that deliverable requirements have been satisfied. OSP is also responsible for the preparation and administration of Small Business Administration (SBA) subcontracting plans.

Research Administration, Compliance, Training, and Technologies (ReACTT) within OSP provides a multitude of services internally to OSP as well as to the entire Institute. ReACTT furnishes specialized educational, informational, and technological support to research administrators and faculty. Workshops are offered on a variety of topics of interest to research faculty and administrators. ReACTT is the focal point for electronic research administration at Georgia Tech. ReACTT researches the literature and electronic sources and publicizes announcements of funding opportunities, orders and/or electronically downloads Requests for Proposals (RFPs) and other solicitations, and distributes them to the campus. ReACTT also assists individual researchers in program development activities through database searches, and obtaining guidelines, application forms, etc. A newsletter, *Research News*, is published monthly by this division; it is also posted to the internet. ReACTT has access to several databases and assists with individualized searches for funding opportunities and sponsor information. These databases have also been made accessible through the OSP Internet homepage at <http://www.osp.gatech.edu>. ReACTT administers the Community of Science (COS) program at Georgia Tech and assists researchers in maintaining their COS profiles and in using the COS database. ReACTT helps researchers with electronic submission of proposals via FastLane and other systems. ReACTT distributes all proposals and deliverable reports and serves as the filing center for project files and progress reports, pending receipt of final reports, and subsequent submission to the Archives section of the Georgia Tech Library.

Georgia Tech's compliance with a number of important areas of research regulation is assured by ReACTT. The Associate Vice Provost for Research serves as Georgia Tech's institutional compliance coordinator. ReACTT administers the Institutional Review Board (IRB) which reviews all use of human subjects in research at Georgia Tech. ReACTT is also responsible for the administration of the Institutional Animal Care and Use Committee (IACUC) and the Institutional Biosafety Committee (IBC), which oversees research involving recombinant DNA. More information about the human subjects program, the animal care and use program, and the biosafety committee can be found at <http://www.osp.gatech.edu/Manual/contents.html>.





GEORGIA TECH RESEARCH CORPORATION

Founded in 1937, the Georgia Tech Research Corporation (GTRC) is a state chartered not-for-profit corporation serving Georgia Tech as a University System of Georgia approved cooperative organization. By charter, GTRC "... shall be operated exclusively for scientific, literary and educational purposes . . . conduct laboratories, engage in scientific research, and distribute and disseminate information resulting from research." GTRC is an IRS section 501(c)(3) not-for-profit organization and is located on campus in the Centennial Research Building. Georgia Tech Applied Research Corporation (GTARC) is a wholly controlled subsidiary of GTRC and serves the Georgia Tech Research Institute (GTRI).

GTRC serves as the contracting agency for all of the sponsored research activities at Georgia Tech. The Research Corporation, since its founding, has received some 33,582 contracts for a total value of over \$2.91 billion. It also licenses all intellectual property (patents, software, trade secrets, etc.) created at Georgia Tech. At the end of the fiscal year, GTRC held 214 patents on behalf of Georgia Tech and had 226 patent applications pending approval of the U. S. Patent and Trademark Office. All funds collected by GTRC are used to support various Georgia Tech programs requested by the Institute and as approved by the GTRC Board of Trustees. In addition to paying for sponsored research costs, license and royalty fees, and all corporate operating expenses during Fiscal Year 2000, GTRC provided more than \$10.2 million to Georgia Tech in the form of grants and funded support programs.

Additionally, GTRC assists Georgia Tech in obtaining quality research space, enters into long-term leases for specialized research equipment, and conducts other research support programs as requested by the Institute.

Table 6.4 Revenues, Fiscal Years 1999 and 2000

Revenue	1999	2000
Sponsored Research	\$181,430,677	\$203,387,324
License and Royalty	2,038,078	2,179,757
Investment & Other	1,227,574	1,211,079
Total Revenue	\$184,696,329	\$206,778,160

Table 6.5 Grants and Funded Support Programs, Fiscal Year 2000

Support	Amount
Research Operations	
Equipment, facilities, marketing grants	\$4,500,000
Contingency and liability support	2,752,785
Total	\$7,252,785
Research Personnel, Recruiting, and Development	
Senior research leadership/incentive grants	\$979,578
Contract development/technology transfer expenses	973,353
Woodbury Research Site	12,168
Ph.D. support and tuition assistance programs	311,858
Foreign travel and professional society support	130,796
Promotional expenses/Research Association Dues	405,502
New faculty moving expenses	110,062
Faculty and staff recognition/awards program	53,473
Total	\$2,976,790
Total Support	\$10,229,575

Table 6.6 GTRC Sponsored Research Contracting Operations, Fiscal Years 1999 and 2000

	1999	2000
Proposals submitted	2,027	2,031
Dollar value	\$622,077,411	\$766,829,261
Proposals outstanding	2,036	1,733
Dollar value	\$816,466,555	\$868,323,127
Contracts Awarded	1,670	1,850
Dollar value	\$217,078,477	\$232,458,132

Source: GTRC Associate Vice Provost and General Manager

**GEORGIA TECH RESEARCH CORPORATION
GEORGIA TECH APPLIED RESEARCH CORPORATION**

Table 6.7 GTRC Technology Licensing Activities, Fiscal Years 1999 and 2000

	1999	2000
Inventions, software and copyright disclosures	130	175
U. S. patents issued	21	24
Expressions of possible licensing interest received	103	100
Invention licenses executed	12	15
Software licenses executed	40	20
Copyright licenses	28	0

Table 6.8 Georgia Tech Research Corporation Officers/Georgia Tech Applied Research Corporation Officers

Name	Office
Mr. M. Andrew Clark	Chairman
Mr. Ben J. Dyer	Vice Chairman
Dr. G. Wayne Clough	President
Dr. Charles L. Liotta	Vice Provost for Research
Ms. Jilda D. Garton	Associate Vice Provost and General Manager
Dr. Edward K. Reedy	Secretary
Dr. Jean-Lou Chameau	Treasurer

Table 6.9 Georgia Tech Research Corporation Trustees/Georgia Tech Applied Research Corporation Trustees

Trustee	Title
Mr. M. Andrew Clark	Vice President for International Leasing, The Uniroyal Goodrich Tire Company
Dr. G. Wayne Clough	President, Georgia Tech
Mr. Wayne T. Dahlke	Senior Vice President for Power Delivery, Georgia Power Company
Mr. Ben J. Dyer	Chairman, Intellimedia Corp.
Dr. James L. Ferris	President, Institute of Paper Science & Technology
Dr. Michael M. E. Johns	Executive Vice President for Health Affairs, Emory University
Mr. Lewis Jordan	Chairman of Wingspread Enterprises LLC
Dr. Thomas J. Malone	President, Milliken & Co.
Ms. Shirley Mewborn	Vice President and Treasurer, Southern Engineering Co.
Mr. Leland Strange	Chairman, President and CEO of Intelligent Systems Corporation
Dr. Michael E. Thomas	Provost and Vice President for Academic Affairs, Georgia Tech
Mr. Robert K. Thompson	Senior Vice President for Administration and Finance, Georgia Tech

Table 6.10 Georgia Tech Research Corporation Trustees Emeritus/Georgia Tech Applied Research Corporation Trustees Emeritus

Trustees Emeritus	Title
Dr. Ernest A. Baillif	Former Senior Vice President Engineering and Research, Whirlpool Corp.
Dr. William B. Harrison	Former Senior Vice President, Southern Company Services
Mr. E. E. Renfro, III	Former Director, Nuclear Operations, Florida Power Corporation
Mr. Glen P. Robinson, Jr.	Former Chairman, Scientific-Atlanta
Mr. Kenneth G. Taylor	Former President, Simons-Eastern Engineering





INTERDISCIPLINARY CENTERS

To stimulate cooperation in emerging areas of education and research, Georgia Tech has established a network of more than 90 centers that cut across traditional academic disciplines. Drawing upon human and technical resources throughout the university, the centers provide an interdisciplinary setting for addressing basic and applied problems of interest to government and private enterprise. They also provide a mechanism for interdisciplinary thrusts in graduate and undergraduate education.

Centers are established and terminated as needs and opportunities change. Tech's centers involve faculty from academic colleges and from the Georgia Tech Research Institute (GTRI). GTRI provides additional flexibility to research at Georgia Tech and complements academic programs. All of Tech's interdisciplinary centers perform sponsored research on a contractual basis. Industry affiliate memberships are also available through several of the centers. Membership benefits include special access to Tech's broad technical resources, cooperative research programs, and timely technical reports and preprints. A brief description of the majority of Georgia Tech's centers can be found through the University System of Georgia's web site at <http://www.usg.edu/admin/icapp/centers/gatech/>. A list of centers and their contact information follows:

Reporting through the College of Architecture:

Advanced Wood Products Laboratory (AWPL)

Interim Director: Joseph A. Koncelik
Phone: (404) 894-1413
E-mail: joe.koncelik@arch.gatech.edu

Center for Geographic Information Systems (GIS)

(Also reports through GTRI)
Director: Steven P. French
Phone: (404) 894-2350
E-mail: steve.french@arch.gatech.edu

Center for Quality Growth and Regional Development (CQGRD)

Interim Director: Cheryl K. Contant
Phone: (404) 894-2350
E-mail: cheryl.contant@arch.gatech.edu

Center for Rehabilitation Technology (CRT)

Director: Joseph A. Koncelik
Phone: (404) 894-1413
E-mail: joe.koncelik@arch.gatech.edu

Construction Resources Center (CRC)

Co-Director: Roozbeh Kangari
Phone: (404) 894-2296
E-mail: roozbeh.kangari@arch.gatech.edu
Co-Director: Jorge A. Vanegas
Phone: (404) 894-9881
E-mail: jorge.vanegas@ce.gatech.edu

Reporting through the College of Computing:

Georgia Tech Information Security Center (GTISC)

Interim Director: Peter Freeman
Phone: (404) 385-0270
E-mail: burnhamb@cc.gatech.edu

Graphics, Visualization and Usability Center (GVUC)

Director: Jarek Rossignac
Phone: (404) 894-0671
E-mail: jarek.rossignac@gvu.gatech.edu

Reporting through the College of Engineering:

Air Resources and Engineering Center

Co-Director: Shaw Liu
Phone: (404) 894-1758
E-mail: shaw.liu@eas.gatech.edu
Co-Director: Ted Russell
Phone: (404) 894-3079
E-mail: ted.russell@ce.gatech.edu

Center for Applied Geomaterials Research

Co-Director: J. Carlos Santamarina
Phone: (404) 894-7605
E-mail: carlos@ce.gatech.edu
Co-Director: Lenoid Gernamovich
Phone: (404) 894-2284
E-mail: leonid.germanovich@ce.gatech.edu

Center for Applied Probability

Director: Richard Serfozo
Phone: (404) 894-2305
E-mail: richard.serfozo@isye.gatech.edu

Atlanta Electronic Commerce Resource Center

Director: Robert Fulton
Phone: (404) 894-7409
E-mail: robert.fulton@me.gatech.edu

NSF-ERC Georgia Tech/Emory Center for the Engineering of Living Tissues

Director: Robert M. Nerem
Phone: (404) 894-2768
E-mail: robert.nerem@ibb.gatech.edu

Center of Excellence in Rotocraft Technology (CERT)

Director: Daniel P. Schrage
Phone: (404) 894-6257
E-mail: daniel.schrage@aerospace.gatech.edu

Center for Nanoscience and Nanotechnology

Director: Z.L. Wang
Phone: (404) 894-8008
E-mail: zhong.wang@mse.gatech.edu

Center for Polymer Processing

Co-Director: Jonathan S. Colton
Phone: (404) 894-7407
E-mail: jonathan.colton@me.gatech.edu
Co-Director: John D. Muzzy
Phone: (404) 894-2882
E-mail: john.muzzy@che.gatech.edu

Center for Research in Embedded Systems and Technology

Director: Krishna Palem
Phone: (404) 894-2574
E-mail: krishna.palem@ee.gatech.edu

Center for Signal and Image Processing

Director: Ronald W. Schafer
Phone: (404) 894-2917
E-mail: rws@ece.gatech.edu

Center GTL-CRNS Telecom

Director: William T. Rhodes
Phone: (404) 894-2929
E-mail: bill.rhodes@ee.gatech.edu

INTERDISCIPLINARY CENTERS

Composites Education and Research Center (CERC)

Director: W. Steven Johnson
 Phone: (404) 894-3013
 E-mail: steve.johnson@mse.gatech.edu

Computer-Aided Structural Engineering Center (CASE)

Director: Lawrence F. Kahn
 Phone: (404) 894-8021
 E-mail: lawrence.kahn@ce.gatech.edu

Fluid Properties Research Institute (FPRI)

Director: Aryn S. Teja
 Phone: (404) 894-3098
 E-mail: amyn.teja@che.gatech.edu

Fusion Research Center (FRC)

Director: Weston M. Stacey, Jr.
 Phone: (404) 894-3714
 E-mail: weston.stacey@me.gatech.edu

Georgia Tech Wireless Institute

Director: Nikil S. Jayant
 Phone: (404) 894-7285
 E-mail: nikil.jayant@ee.gatech.edu

Georgia Transportation Institute

Director: Glenn J. Rix
 Phone: (404) 894-2292
 E-mail: glenn.rix@ce.gatech.edu

Georgia Water Resource Institute

Director: Aris P. Georgakakos
 Phone: (404) 894-2240
 E-mail: ageorgak@ce.gatech.edu

Health Systems Research Center (HSRC)

Director: Justin Myrick
 Phone: (404) 894-4551
 E-mail: justin.myrick@isye.gatech.edu

Parker H. Petit Institute for Bioengineering and Bioscience

Director: Robert M. Nerem
 Phone: (404) 894-2768
 E-mail: robert.nerem@ibb.gatech.edu

The Logistics Institute (TLI)

Director: H. Donald Ratliff
 Phone: (404) 894-2307
 E-mail: hugh.ratliff@isye.gatech.edu

Manufacturing Research Center

Director: Steven Danyluk
 Phone: (404) 894-9687
 E-mail: steven.danyluk@marc.gatech.edu

Mechanical Properties Research Laboratory (MPRL)

Director: David L. McDowell
 Phone: (404) 894-5128
 E-mail: david.mcdowell@me.gatech.edu

Microelectronics Research Center

Director: James D. Meindl
 Phone: (404) 894-5101
 E-mail: james.meindl@mirc.gatech.edu

NSF Mid-America Earthquake Center

Director: Barry Goodno
 Phone: (404) 894-2227
 E-mail: barry.goodno@ce.gatech.edu

Molecular Design Institute

Director: William S. Rees
 Phone: (404) 894-4049
 E-mail: will.rees@chemistry.gatech.edu

National Electric Energy Testing, Research and Applications Center (NEETRAC)

Director: Hans B. Puttgen
 Phone: (404) 894-2927
 E-mail: hans.puttgen@ee.gatech.edu

National Textile Center

Site Director: Wayne C. Tincher
 Phone: (404) 894-2197
 E-mail: wayne.tincher@textiles.gatech.edu

Neely Nuclear Research Center (NRC)

Director: Nolan E. Hertel
 Phone: (404) 894-3601
 E-mail: nolan.hertel@me.gatech.edu

NSF-ERC Packaging Research Center (PRC)

Director: Rao R. Tummala
 Phone: (404) 894-9097
 E-mail: rao.tummala@ee.gatech.edu

Phosphor Technology Center of Excellence

Director: Christopher J. Summers
 Phone: (404) 385-0697
 E-mail: chris.summers@mse.gatech.edu

Polymer Education and Research Center

Director: Vacant
 Phone:
 E-mail:

Rapid Prototyping and Manufacturing Institute

Director: Steven Danyluk
 Phone: (404) 894-9687
 E-mail: steven.danyluk@marc.gatech.edu

Specialty Separations Center

Director: Charles A. Eckert
 Phone: (404) 894-7070
 E-mail: charles.eckert@che.gatech.edu

Technology Policy and Assessment Center (TPAC)

Director: Alan L. Porter
 Phone: (404) 894-2330
 E-mail: alan.porter@isye.gatech.edu
 Co-Director: J. David Roessner
 Phone: (404) 894-6821
 E-mail: david.roessner@pubpolicy.gatech.edu

University Center of Excellence for Photovoltaic Research and Education (UCEP)

Director: Ajeet Rohatgi
 Phone: (404) 894-7692
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Reporting through the Ivan Allen College:

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GEORGIA TECH RESEARCH INSTITUTE

The Georgia Tech Research Institute (GTRI) is a nonprofit applied research organization that is an integral part of Georgia Tech. It was chartered by the Georgia General Assembly in 1919 and activated in 1934. GTRI plans and conducts focused programs of innovative research, education, and economic development that advance the global competitiveness of Georgia, the Southeast region, and the nation. Working closely with the academic colleges and interdisciplinary centers in areas of research, education, and service, GTRI plays a vital role in helping Georgia Tech reach its goals.

Staff

GTRI's staff has expertise in most recognized fields of science and technology. As of June 2000, GTRI had 1,010 employees, including 474 full-time engineers and scientists, and 243 full-time support staff members. The other employees include additional faculty members, students, and consultants who work in the research program on a part-time basis. Among GTRI's full-time research faculty, 77 percent hold advanced degrees. (See Table 6.11)

Recent Research Funding Trends

During fiscal year 2000, GTRI reported \$107.4 million in contract awards and grants. Major customers for GTRI research include U.S. Department of Defense agencies, the state of Georgia, non-defense federal agencies, and private industry. Overall, contracts and grants from Department of Defense agencies account for approximately 62 percent of GTRI's total expenditures. (See Chart)

Strategic Directions

Changing national defense needs, the increasing competitiveness of the global economy, societal issues and emerging technology trends describe the external environment in which GTRI conducts its programs of research and development. GTRI's strategic plan establishes the direction, objectives, and goals for conducting both near and long term programs of innovative research and development. The plan includes major goals and strategies required to accomplish the Institute's mission and objectives.

In broad terms, GTRI intends to maintain and improve the quality of research provided to its traditional government customers, extend its research into new market areas within government and industry, to capitalize on core competencies, enhance its collaborative efforts with university, government, and industry partners, and strengthen its ties and support to state and local government.

Research Directions

Over the past few decades, GTRI has established international standing for its excellence in numerous areas of science and technology. Changing national needs have resulted in greater diversification of GTRI's research programs. Major research thrusts include the following areas:

- Acoustics
- Aerospace
- Communications
- Electromagnetic Environmental Effects
- Electro-Optics

- Electronic Protection
- Food Processing Industry Programs
- Human Factors
- Information Technology/Security
- Law Enforcement Technology
- Learning Technology
- Manufacturing Technology
- Materials Sciences
- Missile Systems
- Microelectronics & Applications
- Modeling & Simulation
- Navigation
- Networking
- Optoelectronics/Photonics
- Radar
- Safety, Health and Environmental Technology
- Signature Control and Reduction
- Signature Sciences
- Simulator Testbeds
- Technology Insertion
- Telecommunications
- Test and Evaluation
- Transportation

GTRI Fellows Council

The GTRI Fellows Council assesses and recommends future technological directions for GTRI's research program. Composed of the organization's most senior and distinguished research faculty, the Council also evaluates proposals for funding through GTRI's internal research programs.

GTRI External Advisory Council

GTRI's External Advisory Council reviews GTRI activities involving strategic and business planning, marketing analysis and research initiatives, and policies and procedures affecting the day-to-day operation of the Institute. The Council also advises the director and his staff on issues and specific areas in order to aid in accomplishing the organization's mission and goals. The GTRI External Advisory Council is composed of proven leaders from the industrial, research, and university sectors.

Organization

GTRI's applied research programs complement research conducted in Georgia Tech's academic colleges and interdisciplinary research centers. A key goal of GTRI is increased academic collaboration with instructional faculty. GTRI's research activities are conducted within eight laboratories which have focused technical missions and are linked to one another by coordinated program thrusts. Interaction among these units is common, and joint teams can readily be formed in areas of mutual interests to combine expertise to provide optimum service to the client. The eight laboratory units and descriptions of their primary research activities are as follows:

Aerospace, Transportation and Advanced Systems (ATAS)

ATAS performs research in a diverse range of areas relevant to both air and ground transportation. Current contracts include work in computational fluid dynamics, computational aeroelasticity, wind tunnel testing, aircraft structural analysis, high speed flight,

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rotocraft, aeroacoustics, intelligent transportation systems, alternative fueled vehicles, aviation and intermodal systems and automotive development. Researchers have developed computational codes and models, as well as unique wind tunnels and aeroacoustics facilities, that are cost effective in research and problem solving for established aircraft fleet modification, aging aircraft, advanced air vehicle concepts, and advanced ground vehicles. ATAS researchers have national and international recognition for contributions to aeroacoustics, helicopters, tilt wings, and high-lift concepts for circulation control, aviation logistics and ground vehicle aerodynamics.

ATAS also performs development of radar and related technologies in support of national defense preparedness. A major part of this research provides accurate simulations of foreign radar systems and associated subsystems that are regarded as national security threats. ATAS's capability in this area is not duplicated at any other university research center. ATAS also has achieved a national reputation for its expertise in advanced transmitter technology, radar system development, and weapon systems interpretation.

Arlington Research Laboratory (ARL)

ARL operates from two locations in the Washington metro area; Rosslyn, Virginia and Quantico, Virginia. The lab provides systems analysis, systems engineering and program management to the Department of Defense and other government agencies as well as commercial partners and customers. Major areas of expertise and experience involve test and evaluation planning, combat training range development and development of C4I systems analysis capabilities. Related work includes functional requirement analysis, analysis of alternatives, cost-benefit analysis, development of decision support systems, development of interactive databases across the internet, technology insertion, and overall technology-based management information systems to support strategic planning. The lab's geographic proximity to a large and diverse customer base offers significant opportunities to work with local customers (current and potential) to truly understand their needs, draw on technical expertise from the campus and bring multidisciplinary GTRI/GT capabilities together to provide the Washington market the best technology solution.

Electronic Systems Laboratory (ELSYS)

ELSYS works in the broad areas of concepts analysis, countermeasures development, and electronic support measures. In concept analysis, ELSYS develops and evaluates electronic defense concepts. Major activities involve advanced concepts analysis, test and evaluation, modeling and simulation, special-purpose instrumentation systems, and human factors studies. ELSYS emphasizes the development, analysis, and test and evaluation of electronic countermeasures and counter-countermeasures techniques and hardware. The laboratory develops new and improved methods for detecting, identifying, and classifying electromagnetic signals, and the means for coordinating countermeasure responses.

Electro-Optics, Environment, and Materials Laboratory (EOEML)

EOEML's mission is one of research, technical assistance, and outreach technology transfer in a broad range of disciplines.

Research areas include: analysis, simulation, and testing of military electro-optical systems; development of high temperature materials, polymers and coatings, zeolites, and metallurgy; environmental research and monitoring; occupational safety and health; and electro-optic device and component design and development.

Huntsville Research Laboratory (HRL)

HRL located in Huntsville, Alabama, primarily supports the U.S. Army Missile Command (MICOM) in its radar and missile simulation efforts. HRL has also worked for the U.S. Army Strategic Defense Command and for private industry in Huntsville. The lab's multidisciplinary research interests include battlefield automation simulation and analysis, aeronautical simulation, analysis and modeling of complete missile systems, sensor and fuze simulation and analysis, and simulation support of special MICOM compartmental classified programs. Other research involves field and hardware-in-the-loop testing of air defense weapons equipment, war gaming and force-on-force simulations, guidance and control simulations, logistics decision support technology, and computer graphics software development.

Information Technology and Telecommunications Laboratory (ITL)

ITL provides computer-based solutions to complex problems involving information processing, storage, representation, and exchange. The lab's information technology program conducts sponsored research in software engineering, information management systems, artificial intelligence, computer graphics, decision support systems, simulation and modeling, database management and design, network management and design, human-computer interface, and hardware and software design. The telecommunications division develops and evaluates communications systems for the Department of Defense, other government organizations, business, and industry. Researchers are particularly well qualified in tactical communications, communications surveillance and disruption, communications networks, radiolocation and direction-finding, propagation analysis and communications antennas.

Sensors and Electromagnetic Applications Laboratory (SEAL)

SEAL wide-ranging research includes specialties in radar systems development, electromagnetic environmental effects, performance modeling and simulation, microwave, and antenna technology. Radar systems programs focus on the development, analysis, and evaluation of radar systems; electronic counter-countermeasures techniques; avionics integration; non-cooperative target identification; vulnerability analysis; signal processing techniques, and photonics applications. In electromagnetic environmental effects, SEAL researchers analyze, measure and control electromagnetic interactions between elements of electronic systems, and between these systems and their environment. Microwave and antenna technology specialists develop, analyze, and test new and existing antenna systems and antenna metrology. SEAL also conducts extensive research in microwave technology, radar cross section measurement and physical security technology.

Signatures Technology Laboratory (STL)

STL conducts R&D in four technical areas: electromagnetic materials and structures, electromagnetic apertures and scattering, optical and infrared physics and phenomenology, and secure information systems. The overarching theme for conduct of business is the





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development of technologies for the management and control of multispectral signatures of objects under observation by sophisticated sensors systems. The Laboratory maintains an extensive numerical modeling and measurement capability for the design and development of thin, broadband antennas with tailored performance and controlled impedance surfaces for management/control of signature characteristics of systems and components. Novel techniques for correlating optical and infrared scattering properties with material composition have been developed and modeled for application to paint and photographic film characterization, optical signature control, and the evaluation of sensors and image based tracking algorithms. STL maintains and operates extensive facilities for optical measurements specializing in laser and white light scatterometry, for electromagnetic materials characterization, for radar cross section measurements, for antenna characterization, and for computational electromagnetics. The secure information systems R&D work is nationally recognized for the design, development, and deployment of enterprise information systems requiring state-of-the-art database, platform, and internet security.

Locations and Facilities

GTRI is headquartered on the Georgia Tech campus, with offices located in the Centennial Research Building, the Baker Building, the Electronics Research Building, the O'Keefe Building, the Georgia Center for Advanced Telecommunications Technology, and the Techway Building. GTRI also operates a major off-campus leased facility approximately fifteen miles from the Georgia Tech campus, in Cobb County. The Agricultural Technology Research Program is housed off-campus in the IPST-2 Building.

Other staff members provide on-site research and liaison from five national field offices at the following locations: near Eglin AFB, Florida; in Warner Robins, Georgia; Quantico, Virginia; Albuquerque, New Mexico; Dayton, Ohio; Arlington, Virginia; and Huntsville, Alabama.

GTRI facilities include laboratories in electronics, computer science and technology, the physical sciences, and most branches of engineering. A 52-acre field test site for research in electromagnetics, radio-direction finding, and propagation studies is located at GTRI's Cobb County facilities, along with a 1,300-foot far field antenna range and radar cross-section ranges, including one with a turntable capable of holding objects weighing up to 100 tons. GTRI researchers can also use a 14-acre satellite communications station south of Atlanta that includes two 105-foot diameter dish antennas and a 14,000 square foot building.

Interaction Within the Tech Community

GTRI enriches the Georgia Tech research environment for faculty and students by conducting externally sponsored, applications-oriented research programs that benefit the state, region, and nation. These programs, led by research faculty, have resulted in major technological advances for national defense, civilian needs, and industrial competitiveness, and have provided students with valuable career experiences. The integral role of GTRI in the Georgia Tech community includes collaborative research with academic faculty, courses originated by GTRI faculty, and joint service efforts.

Collaboration is strong between the faculties of GTRI and the academic schools and departments. Many GTRI researchers hold appointments as adjunct faculty members at Georgia Tech, serve

on thesis advisory committees, and teach both academic and continuing education courses.

Service to Georgia

GTRI plays a vital role in stimulating economic development in Georgia. Through campus facilities and the regional offices of Georgia Tech's Economic Development Institute (EDI), Georgia's businesses and people can tap an array of technologies and experts at GTRI and Georgia Tech's academic units.

This assistance takes many forms, such as:

- Development of new technologies for Georgia's traditional industries
- Technical problem-solving by GTRI engineers and scientists
- Specialized chemical and materials analytical services
- Environmental and workplace safety audits and training
- Continuing education courses and seminars
- Support for the state's recruitment of technology industries

Georgia Tech is increasing its impact on Georgia's economic growth, and GTRI is actively involved in this effort.

Additional information about the Georgia Tech Research Institute can be found on the World Wide Web at URL: <<<http://www.gtri.gatech.edu/>>>. The Web includes additional information on GTRI's research laboratories and research areas, as well as the full text of the GTRI Annual Report, Research Horizons Magazine, and news releases about research accomplishments. Current position listings are also available.

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GEORGIA TECH RESEARCH INSTITUTE

Table 6.11 GTRI Staff, October 2000

Personnel Group	Number	Percentage
A. GTRI Regular Employees		
I. Research Professional (by highest degree)		
Doctoral*	104	22.0%
Master's	261	55.0%
Bachelor's	104	22.0%
Other/No Degree	5	1.0%
Total Research Professional	474	
II. Support Staff	243	
Total GTRI Regular Employees	717	
B. Temporary/Other Employees		
I. Research Professional	63	
II. Support Staff	47	
Total Temporary/Other	110	
C. Student Employees		
Graduate Research Assistants/Grad Co-ops	38	
Undergraduate Co-op Students	75	
Student Assistants	61	
Non-Tech Students	9	
Total Students	183	
Total GTRI Staff	1,010	
* Includes J.D.s and M.D.s		

Table 6.12 GTRI Research Facilities, Fiscal Year 2000

Facility	Square Footage
On-campus Research Space	236,686
Off-campus Research Space	147,924
Total	384,610

**Fig. 6.2 Major GTRI Customers
Fiscal Year 2000**

