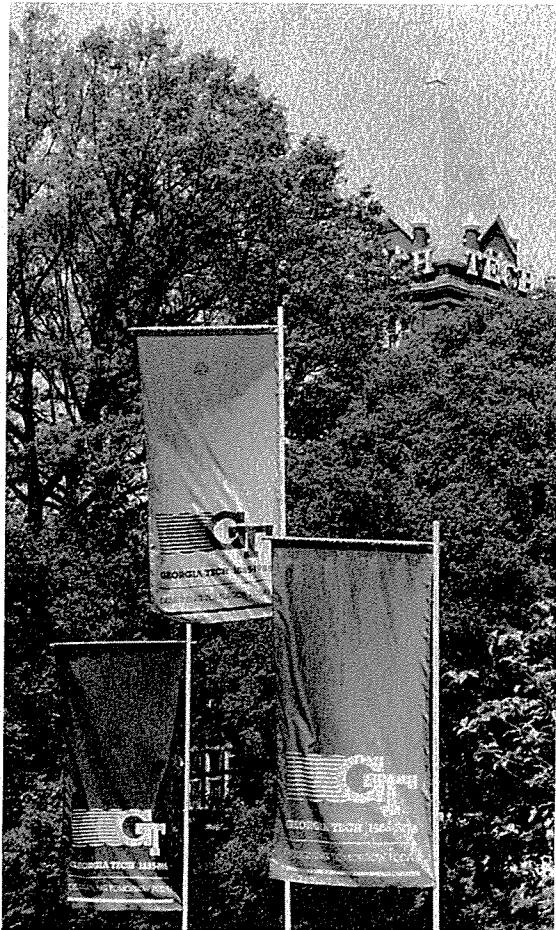


1985-86 Fact Book



Georgia Tech

A Unit of the
University System of Georgia

1985-86 Fact Book

Georgia Tech

Office of the Vice President
for Academic Affairs
Georgia Institute of Technology
Atlanta, Georgia 30332

Edited by Debbie McCoy

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All text, bar charts and pie charts were done on the Xerox 8010 "Star" Information System.



Pictured among Tech's first faculty are the first two presidents, Isaac Hopkins is the left insert and Lyman Hall is on the right.

PRESIDENTS OF GEORGIA TECH

1888 - 1896	Isaac S. Hopkins
1896 - 1905	Lyman Hall
1906 - 1922	Kenneth G. Matheson
1922 - 1944	Marion L. Brittain
1944 - 1956	Colonel Blake R. Van Leer
1957 - 1969	Edwin D. Harrison
1969 - 1972	Arthur G. Hansen
1972 - present	Joseph M. Pettit

HISTORICAL HIGHLIGHTS OF TECH'S FIRST CENTURY

In 1885 the Georgia School of Technology had two buildings on nine acres of land, four faculty members, 129 students, and a dream of an educational institution that would combine academics and technology in a practical environment.

Today the Georgia Institute of Technology has 128 buildings on 320 acres of land, more than 1,200 academic and research faculty members, nearly 11,000 students, and a vision of the future in which academia, government, and corporations work together to solve human problems.

In 1882 Nathaniel Edwin Harris, a prominent Macon attorney, and Major J. F. Hanson, manufacturer and manager of the *Macon Telegraph and Messenger* decided that the South needed a technological school if it were to recover from the Civil War. Five cities vied for the site, and Atlanta won by offering \$100,000, a plot of land, and \$2,500 in annual support. Gov. Henry McDaniel signed into law the bill chartering the school on October 13, 1885.

The first graduates were all mechanical engineers, but under President Lyman Hall (1896-1905) the curriculum expanded to include civil and electrical engineering. When the Textile School was added in 1899, the first such school in the Southeast, students primarily studied fabrics for clothing and household use. Today students in Tech's School of Textile Engineering are exploring the use of fibers in artificial hearts, kidney dialysis, and space suits.

In the 1920's Tech became one of the six schools in the U.S. to receive a \$300,000 Guggenheim Award to found its School of Aeronautics. Astronaut John Young, who went to the moon aboard Apollo 16, graduated from the School of Aerospace Engineering, as it is now called. Both he and fellow graduate Dick Truly have piloted the space shuttle.

Astronauts are not the only Tech graduates "Designing Tomorrow Today." Architect John Portman, the "designer of Atlanta's skyline," attended the College of Architecture. Malcolm Stamper, president of the Boeing Company, graduated from the School of Electrical Engineering, and Delta Airlines chairman, David Garrett, Jr., holds a master's degree in Industrial management.

Today Tech looks to the future. With a grant from the state of Georgia, the Microelectronics Research Center is building a \$7.5 million facility to house researchers seeking better compound materials to replace silicon in computer chips. The new Advanced Technology Development Center helps launch high-tech businesses. The Center for Excellence in Rotary Wing Aircraft Technology designs the helicopters of the future. These are but a few examples of the extensive research being done

HISTORICAL HIGHLIGHTS OF TECH'S FIRST CENTURY.

Reflection over Georgia Tech's illustrious 100-year history, its evolution from a modest "trade school" on the outskirts of Atlanta with slim resources and a provincial mission to its current position of international significance, engenders a strong sense of pride in those associated with or interested in the Institute. With that feeling of pride comes an equally strong determination on the part of Georgia Tech's leaders to focus the powerful intellectual energy and technological expertise embodied in Georgia Tech toward meeting the challenges of the future. With a highly qualified and motivated faculty, an outstanding student body, a continuing commitment to excellence, and a clear mission, Georgia Tech is in a good position to contribute uniquely to the twenty-first century.



Dixie plane

Source: Office of Publications and Office of the Vice President of Academic Affairs

STATEMENT OF PURPOSE

The purpose of the Georgia Institute of Technology is to contribute to the fulfillment of the scientific and technical needs of the State of Georgia through education, research, and service.

This institute provides to well-prepared students instruction and research experience that will equip them to perform to their maximum potential in a society with a technological base. Areas of special emphasis for professional careers are in the fields of engineering, the sciences, architecture, and management. Also of major importance for all students is a thorough foundation in the humanities and social sciences in order to provide a liberal education sensitive to the total human condition.

To sustain a leadership position in the national academic community and to serve the technical education needs of the State of Georgia, the Georgia Institute of Technology shall:

- maintain a faculty of recognized excellence;
- pursue a balanced offering of instruction, research, and service;
- provide a broad, relevant background in the fundamental disciplines, thorough instruction in areas of special emphasis, and an intellectual environment for discovery through research and innovation;
- promote a partnership between public and private sectors for the transfer of technology into the economic base of the State of Georgia;
- serve as a standard for excellence in the state, national, and international academic community in areas of special emphasis.

Source: Office of the President (approved by the Board of Regents June 7-8, 1983)

BOARD OF REGENTS

The University System of Georgia, which began operation in 1932, is among the oldest unified statewide systems of public higher education in the United States. It is comprised of Georgia's 33 state-operated institutions--4 universities, 14 senior colleges, 15 junior colleges -- and is governed by a constitutional Board of Regents.

The Board of Regents of the University System consists of 15 members. The members--five from the state-at-large, one from each of the ten Congressional districts--are appointed by the Governor and are confirmed by the State Senate. The term of appointment of all members is seven years.

The Board's authority includes the government, control, and management of all aspects of operation and development of the University System.

The Board receives all state appropriations for the University System and allocates these appropriations to the institutions and institution-related agencies. Current membership of the Board of Regents is provided below:

<u>REGENT</u>	<u>DISTRICT</u>	<u>TERM</u>
John Henry Anderson, Jr.	State-at-Large	1983-1990
Marie Walters Dodd	State-at-Large	1981-1988
Carolyn D. Yancey	State-at-Large	1985-1992
Joseph D. Greene	State-at-Large	1984-1991
John E. Skandalakis	State-at-Large	1981-1988
Arthur M. Gignilliat, Jr., Chairman	First	1983-1990
William T. Divine, Jr.	Second	1982-1989
John H. Robinson, III	Third	1979-1986
Jackie M. Ward	Fourth	1984-1991
Elridge W. McMillan, Vice-Chairman	Fifth	1982-1989
Edgar L. Rhodes	Sixth	1985-1992
Lloyd L. Summer, Jr.	Seventh	1980-1987
Thomas H. Frier, Sr.	Eighth	1985-1992
Sidney O. Smith, Jr.	Ninth	1980-1987
Julius F. Bishop	Tenth	1979-1986

STAFF OF THE BOARD OF REGENTS

H. Dean Propst, Chancellor	
Henry G. Neal, Executive Secretary	Howard Jordan, Jr., Services
Jacob H. Wamsley, Fiscal Affairs/Treasurer	Thomas F. McDonald, Student Services
W. Ray Cleere, Academic Affairs	Harry B. O'Rear, Health Affairs
Frederick O. Branch, Facilities	Haskin R. Pounds, Research & Planning

Source: Office of the Board of Regents

INSTITUTIONAL AND PROFESSIONAL ACCREDITATION

Institutional Accreditation

Georgia Tech is accredited by the Southern Association of Colleges and Schools. A self-study was conducted and reaffirmation was awarded in 1984.

Professional Accreditation

The following bachelor's degree programs have been granted basic level accreditation by the Accreditation Board for Engineering and Technology:

aerospace engineering
ceramic engineering
chemical engineering
civil engineering
electrical engineering

engineering science and mechanics
industrial engineering
mechanical engineering
nuclear engineering
textile engineering

The program leading to a master's degree in metallurgy has been granted basic level accreditation. The program leading to a master's degree in environmental engineering has been granted advanced level accreditation.

In the College of Architecture the program leading to the Bachelor of Science in Industrial Design has been reviewed and recognized by the Industrial Designers Society of America.

The program leading to the degree Master of Architecture is accredited as a first professional degree by the National Architectural Accrediting Board. The program leading to the degree Master of City Planning has been reviewed and recognized by the American Institute of Planners.

The curriculum leading to the bachelor's degree in chemistry is accredited by the American Chemical Society.

All of the degree programs of the College of Management subject to the review of the American Assembly of Collegiate Schools of Business have been accredited by that organization. These programs include: Bachelor of Science in Management; Bachelor of Science in Management Science; Bachelor of Science in Economics; and Master of Science in Management.

Source: Office of the Vice President for Academic Affairs

ADMINISTRATION

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James R. Stevenson
E. Janice Gosdin-Sangster
Homer C. Rice
John H. Gibson

Jesse H. Poore

President
Executive Assistant to the President
Assistant to the President
Assistant to the President/ Athletics
Assistant to the President/Employee Relations
& Affirmative Action
Assistant to the President/Information
Technology

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Jesse H. Poore

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Miriam A. Drake
Frank E. Roper, Jr.

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Associate Vice President
Associate Vice President/Education Extension
Associate Vice President/Information
Technology
Associate Vice President for Graduate Studies &
Research and Dean, Graduate Studies
Director, Minority Educational Development
Director, Library
Registrar

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Albert P. Sheppard, Jr.
Walter O. Carlson

Joseph L. Pentecost

J. W. Dees
Donald J. Grace
A. Raymond Moore
Robert M. Boyd

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Associate Vice President
Associate Vice President for Graduate Studies &
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Acting Director, Advanced Technology
Development Center
Director, Contract Administration
Director, Georgia Tech Research Institute
Director, Research Communications
Director, Radiological Safety

College of Management

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Andrew J. Cooper, III
Marilu H. McCarty

Dean
Assistant Dean/Administration
Assistant Dean/Academic Programs

College of Architecture

William L. Fash
John A. Kelly
A. Frank Beckum

Dean
Associate Dean
Assistant Dean

ADMINISTRATION

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Robert A. Pierotti
C. S. Kiang
Raymond E. Miller

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Edward W. Thomas
Anderson D. Smith
Daniel S. Papp
Colonel Winston K. Pendleton
Lt. Colonel Patrick H. Linhares
A. D. Van Nostrand
Les A. Karlovitz
Gregory Colson
Captain Dennis Y. Sloan
James A. Reedy

Dean

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Director, School of Chemistry
Director, School of Geophysical Sciences
Director, School of Information & Computer
Science
Director, School of Mathematics
Director, School of Physics
Acting Director, School of Psychology
Director, School of Social Sciences
Head, Department of Air Force ROTC
Head, Department of Army ROTC
Head, Department of English
Acting Head, Department of Modern Languages
Head, Department of Music
Head, Department of Navy ROTC
Head, Department of Physical Education &
Recreation

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W. Denney Freeston, Jr.
Joseph C. Hogan

Arnold L. Ducoffe
Gary W. Poehlein
J. Edmund Fitzgerald
Demetrius T. Paris
J. Edmund Fitzgerald

Michael E. Thomas

Gary W. Poehlein
Stephen A. Antolvich
Gary W. Poehlein
John A. Brighton
Albin F. Turbak

Dean

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Development
Director, School of Aerospace Engineering
Director, School of Chemical Engineering
Director, School of Civil Engineering
Director, School of Electrical Engineering
Acting Director, School of Engineering Science &
Mechanics
Director, School of Industrial & Systems
Engineering
Acting Director, School of Materials Engineering
Associate Director, Metallurgy
Acting Associate Director, Ceramic Engineering
Director, School of Mechanical Engineering
Director, School of Textile Engineering

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Jerry L. Hitt
David Gray
Annette Satterfield
M. Jo McIver
James L. Garner

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Associate Registrar
Director, Admissions
Acting Director, Financial Aid
Director, Records
Director, Registration
Director, Undergraduate Recruiting

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Research and Dean, Graduate Studies
Director, Graduate Cooperative Program

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Helen R. Citron

Director
Associate Director

Dean of Student Affairs

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Edwin P. Kohler

Carole E. Moore

Stephen C. Leist

W. Miller Templeton

Barbara J. Winship

Gary J. Schwarzmuller

M. Jo Benson-Ivey

Roger E. Wehrle

J. Nicholas Gordon

Vice President/Dean of Student Affairs
Associate Vice President/Student Affairs
Assistant Vice President/Student Affairs
Assistant to the Vice President/Fraternity Affairs
Director, International Student Services and
Programs
Director, Counseling & Career Planning
Director, Housing
Director, New Student & Parent Programs
Director, Student Center
Director, Student Health

Information Technology

Jesse H. Poore

John M. Gehl

Jerry W. Segers

Gary G. Watson

Associate Vice President /Assistant to the
President for Information Technology
Acting Director, Computing Services
Director, Telecommunications & Networking
Director, Information Systems and Applications

Georgia Tech Research Institute

Donald J. Grace

Gerald J. Carey

Howard G. Dean, Jr.

Robert G. Shackelford

James C. Wiltse

P. J. O'Hare

David S. Clifton, Jr.

N. Walter Cox

Fred L. Cain

Hans O. Spauschus

Edward K. Reedy

Samuel T. Alford

Robert P. Zimmer

Director
Associate Director
Associate Director
Associate Director
Associate Director
Assistant Director for Administration
Director, Economic Development Laboratory
Director, Electromagnetics Laboratory
Director, Electronics & Computer Systems
Laboratory
Director, Energy & Materials Sciences Laboratory
Director, Radar & Instrumentation Laboratory
Director, Systems & Techniques Laboratory
Director, Systems Engineering Laboratory

ADMINISTRATION

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James C. Toler
Stephen Antolovich

Satyanadham Atluri
Melvin W. Carter
Eric J. Clayfield

Howard Grimes
Robin B. Gray

John W. Hooper
Bernd Kahn
Richard J. L. Martin
James C. Muller
John H. Myers
Justin Myrick
Weston Stacey
Thomas G. Tornabene
John A. White
Joan Pettigrew & A. D. Van Nostrand

Acting Director, Interdisciplinary Programs and
Director,

Technology Policy and Assessment Center
Co-Director, Bioengineering Center
Co-Director, Bioengineering Center
Director, Fracture & Fatigue Research
Laboratory

Director, Computational Mechanics Center
Director, Radiological Protection Center
Director, Georgia Minerals & Mining Research
Institute

Director, Center on Work Performance Problems
Director, Center for Excellence in Rotary Wing
Aircraft Technology

Director, Microelectronics Research Center
Director, Environmental Resources Center
Director, Rehabilitation Technology Center
Acting Director, Georgia Productivity Center

Director, Center for Architectural Conservation
Director, Health Systems Research Center
Director, Fusion Research Center

Director, Biotechnology Research Center
Director, Materials Handling Research Center
Directors, Center for Research in Writing

Business & Finance

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C. Evan Crosby
Clyde D. Robbins
Delores Gaddis
Patrick J. O'Hare
Joel Hubbard
H. T. Marshall
Frank Murphy
G. Les Petherick
Billy B. Portwood
James L. Priest
David O. Savini
Jack Vickery
Roger E. Wehrle

Vice President

Associate Vice President/Finance

Associate Vice President/Facilities

Director, Purchasing

Acting Director, Personnel

Director, Accounting Services

Director, Internal Auditing

Director, Property Control

Director, Environmental Safety

Director, Budgets

Director, Physical Plant

Director, Campus Planning

Director, Campus Safety

Director, Auxiliary Enterprises

ADMINISTRATION

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David O. Savini

Vice President
Director, Campus Planning

Office of Communications and Development

Warren Heemann

Vice President

Development

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Catherine C. Inabnit

Bonnie B. Johnson

William T. Lee

Linda W. McNay

Mary Kay Murphy

James B. Osborne

Mary E. Stoffregen

Robert N. Leitch

Acting Assistant Vice President of Institute
Relations & Development

Director for Development/Constituency
Research

Director for Development/Special Gifts

Director for Development/Planned Giving

Director for Development/Annual Giving

Director for Development/Foundation Relations

Director for Corporate Relations and Placement

Director for Accounting & Administration

Secretary, Georgia Tech Foundation, Inc.

Communications

Cecil R. Phillips

Associate Vice President for Development

John P. Culver

Thomas K. Hamall

Charles E. Harmon

Thomas L. Vitale

Assistant Vice President for Development

Director Government Relations

Director, News Bureau

Director, Publications

Office of Contract Administration

J. W. Dees

Milton P. Stompler

Ronald M. Bell

Director

Associate Director

Associate Director

Education Extension

William J. Lnenicka

Clifford R. Bragdon

Louis J. Zahn

William H. Hitch

Associate Vice President/Education Extension

Director, Continuing Education

Director, Language Institute

Director, Cooperative Division

Advanced Technology Development Center

Joseph L. Pentecost

Lindsey Hopkins, III

Acting Director

Associate Director

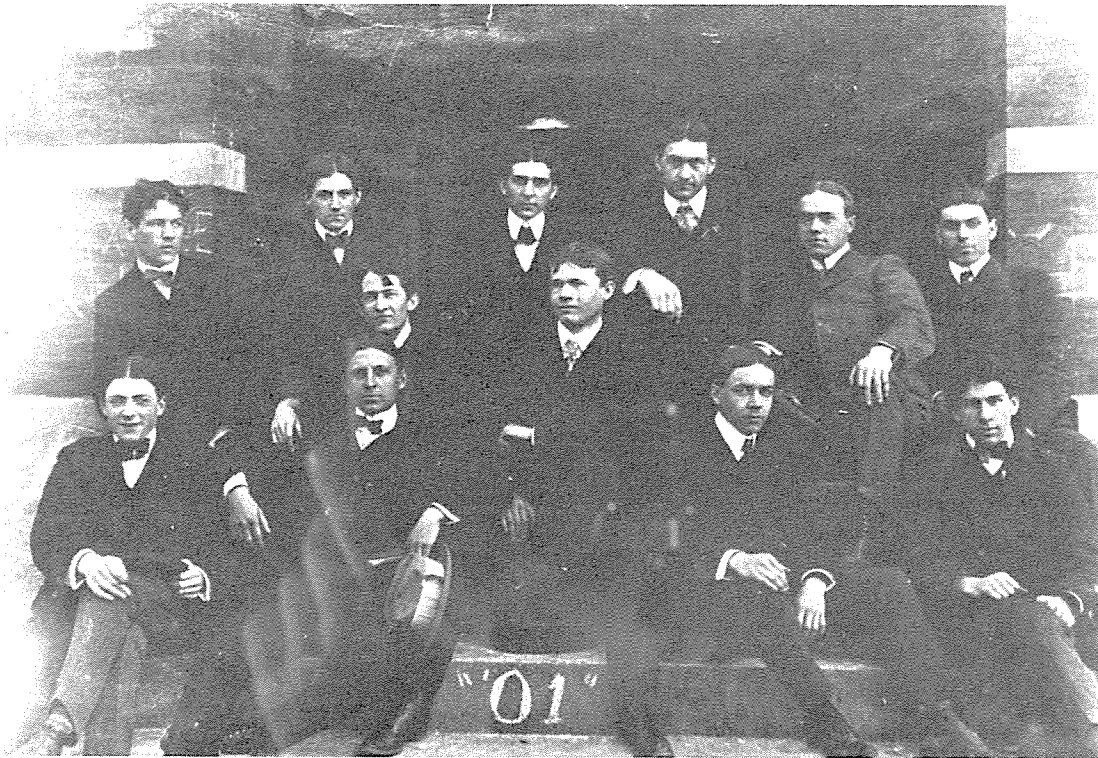
DEGREES OFFERED

Curricula is offered leading to Bachelor degrees in the following disciplines:

Aerospace Engineering
Ceramic Engineering
Chemical Engineering
Civil Engineering
Computer Engineering*
Electrical Engineering
Engineering Science and Mechanics
Industrial Engineering
Mechanical Engineering
Nuclear Engineering
Textile Engineering
Science
Applied Biology
Applied Mathematics

Applied Physics
Applied Psychology
Building Construction
Chemistry
Economics
Health Physics
Information and Computer Science
Industrial Design
Management
Management Science
Physics
Textile Chemistry
Textiles

*This program recently has been approved by the Board of Regents. The first graduating class will be in 1987, provided that accreditation is received.



The graduating class of 1901 was suspended for six weeks for failing to return from the Christmas holidays on time.

DEGREES OFFERED

Programs of study and research leading to the Master of Science degree are offered in the following disciplines:

Aerospace Engineering	Health Systems
Architecture	Industrial & Systems Engineering
Applied Biology	Information & Computer Science
Applied Mathematics	Management
Applied Physics	Mechanical Engineering
Atmospheric Sciences	Metallurgy
Ceramic Engineering	Nuclear Engineering
Chemical Engineering	Operations Research
Chemistry	Physics
City Planning	Polymers
Civil Engineering	Psychology
Electrical Engineering	Statistics
Engineering Science & Mechanics	Technology & Science Policy
Environmental Engineering	Textile Chemistry
Geophysical Sciences	Textile Engineering
Health Physics	Textiles

Programs of study and research leading to the Ph.D. degree are offered in the following disciplines and areas:

Aerospace Engineering	Geophysical Sciences
Applied Biology	Health Physics
Architecture	Industrial & Systems Engineering
Atmospheric Sciences	Information & Computer Science
Ceramic Engineering	Management
Chemical Engineering	Mathematics
Chemistry	Mechanical Engineering
Civil Engineering and Environmental Engineering	Metallurgy
Economics	Nuclear Engineering
Electrical Engineering	Operations Research
Engineering Science & Mechanics	Physics
	Psychology
	Textile Engineering

Source: Registrar

Student/Faculty Profiles



GEORGIA TECH 1885-1985

DESIGNING TOMORROW TODAY

FRESHMAN PROFILE FALL QUARTER 1985

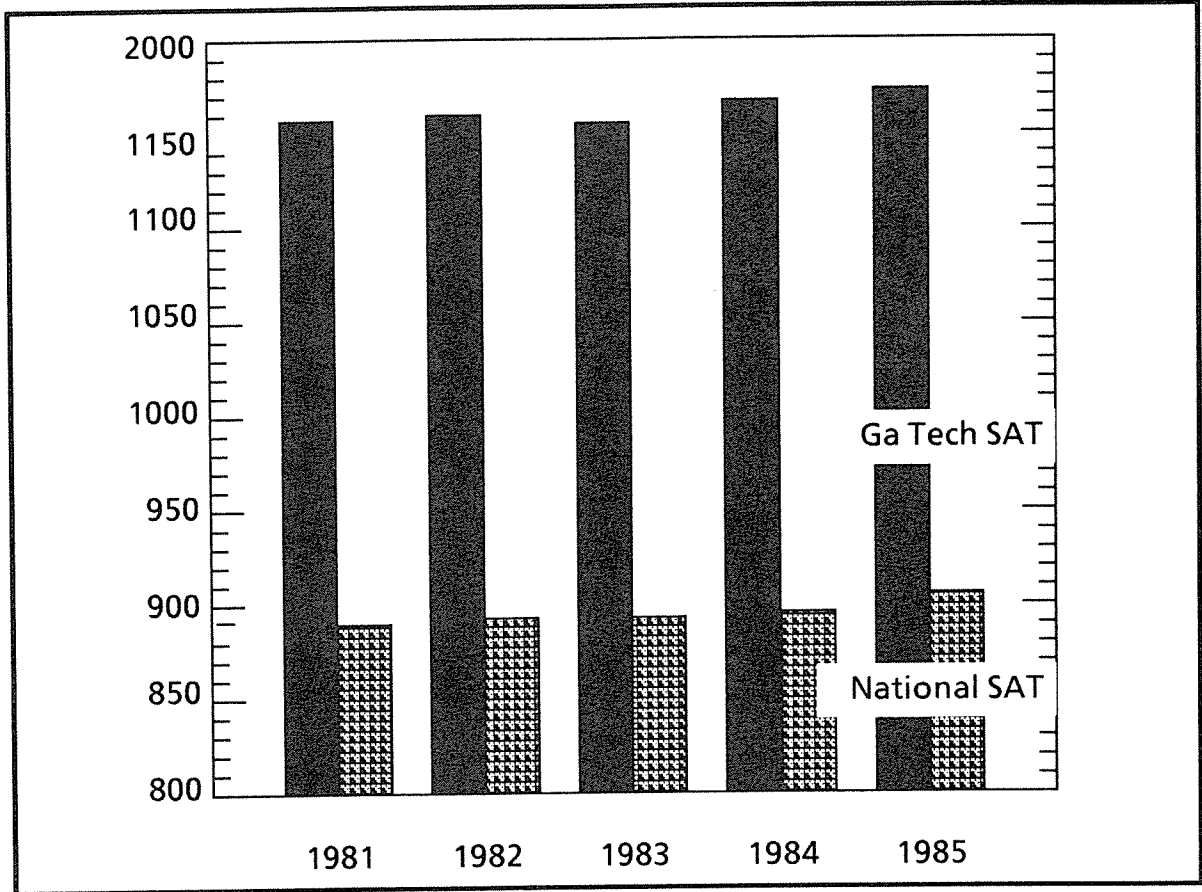
<u>PERCENTILE</u>	<u>HIGH SCHOOL AVERAGE</u>	<u>SAT* VERBAL</u>	<u>SAT* MATHEMATICS</u>	<u>SAT* TOTAL</u>
FALL 1985				
90	4.0	651	736	1,387
80	3.9	612	704	1,316
70	3.8	580	680	1,260
60	3.7	558	660	1,218
50	3.6	538	642	1,180
40	3.5	517	623	1,140
30	3.4	496	605	1,101
20	3.3	472	585	1,057
10	3.1	438	550	988
AVERAGE	3.5	535	638	1,173

FALL 1980				
90	4.0	647	731	1,378
80	3.9	604	700	1,304
70	3.8	579	675	1,254
60	3.7	557	657	1,214
50	3.6	533	638	1,171
40	3.5	511	618	1,129
30	3.3	489	600	1,089
20	3.2	465	574	1,039
10	3.0	431	541	972
AVERAGE	3.5	531	631	1,162

*Scholastic Aptitude Test

Source: Office of the Registrar

FRESHMAN PROFILE FALL QUARTER 1985



<u>YEAR</u>	<u>GEORGIA TECH AVERAGE SAT*</u>	<u>NATIONAL AVERAGE SAT*</u>
1985	1173	906
1984	1168	897
1983	1156	893
1982	1160	893
1981	1158	890

*Scholastic Aptitude Test

Source: Office of the Registrar

FRESHMAN NATIONAL MERIT SCHOLARS

Numerical						
Rank			1981/	1982/	1983/	1984/
<u>1984-85</u>	<u>Institute</u>	<u>Type</u>	<u>1982</u>	<u>1983</u>	<u>1984</u>	<u>1985</u>
1	Harvard/Radcliffe Colleges	Private	268	295	297	323
2	University of Texas	Public	118	130	223	273
3	Yale University	Private	140	171	156	187
4	Rice University	Private	143	172	155	169
5	Princeton University	Private	149	190	197	168
6	Texas A & M University	Public	149	190	172	162
7	Stanford University	Private	79	107	139	142
8	M.I.T.	Private	88	152	117	133
9	Michigan State University	Public	100	98	118	128
10	Trinity University	Private	10	30	54	121
11	University of Chicago	Private	95	84	105	112
12	Carleton College	Private	76	98	85	100
13	Georgia Tech	Public	104	116	94	94
14	Northwestern University	Private	99	142	126	86
15	University of Florida	Public	93	105	102	82
16-17-18	Washington University	Private	128	111	122	77
16-17-18	University of Ca.-Los Angeles	Public	20	18	21	77
16-17-18	University of Michigan	Public	54	45	64	77

1984-85 National Merit Scholars as a Percent of Freshman Class, Public Schools

Institute	Enrollment	Merit Scholars	Percentage of Freshman Class
Georgia Tech	1,713	94	5.4
University of Texas	6,079	273	4.4
Texas A & M University	5,333	162	3.0
Michigan State University	7,014	128	1.8
University of Florida	3,028	82	3.0

Source: Office of the Director, Financial Aid

FRESHMAN NATIONAL ACHIEVEMENT SCHOLARS

Numerical Rank	Institute	Type	1981/ 1982	1982/ 1983	1983/ 1984	1984/ 1985
1	Harvard/Radcliffe Colleges*	Private	74	47	40	57
2	University of Texas	Public	10	15	26	47
3	Stanford University	Private	20	37	30	28
4	Princeton University	Private	26	26	26	27
5-6	Georgia Tech	Public	20	24	28	24
5-6	Yale University	Private	22	23	17	24
7	M.I.T.	Private	26	17	29	23
8	Howard University	Private	9	5	10	14
9	Brown University	Private	17	14	16	13
10-11-12	Cornell University	Private	17	8	9	11
10-11-12	Emory University	Private	11	8	7	11
10-11-12	University Of Georgia	Public	13	7	8	11
13	University of California-Berkeley	Public	4	6	5	10

1984-85 NATIONAL ACHIEVEMENT SCHOLARS AS PERCENT OF FRESHMAN CLASS PUBLIC SCHOOLS

Institute	Enrollment	Merit Scholars	Percentage of Freshman Class
Georgia Tech	1,713	24	1.40
University of Texas	6,079	47	.77
University of Georgia	3,230	11	.34

*Harvard and Radcliffe combine their scores



The first black students entered Tech in September of 1961.

Source: Office of the Director, Financial Aid

PRESIDENT'S SCHOLARSHIP PROGRAM

Freshman Entering Ga. Tech	Mean HSA	Mean SAT	<u>Georgia</u>		<u>Out of State</u>		<u>Total</u>
			Male	Female	Male	Female	
1985-86 ¹	3.90	1430	32	8	20	3	63
1984-85 ²	3.92	1433	25	10	7	2	44
1983-84 ³	3.94	1419	15	7	5	0	27
1982-83 ⁴	3.91	1422	8	3	2	1	14
1981-82	3.98	1465	5	1	0	0	6
Program Total/ Average	3.93	1434	85	29	34	6	154

GRADUATES OF THE PRESIDENT'S SCHOLARSHIP PROGRAM

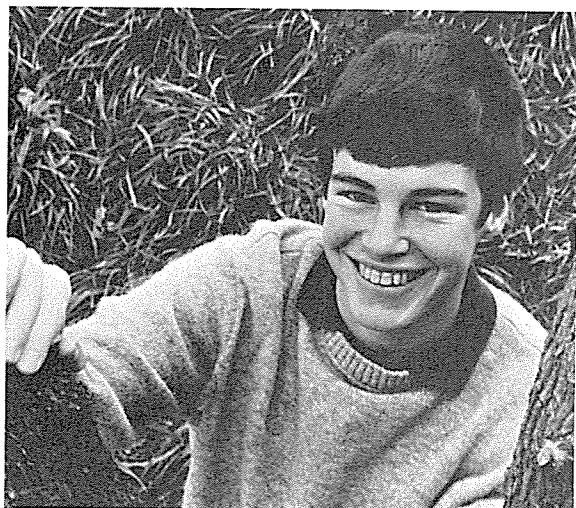
Total	Majors	<u>Georgia</u>		Highest	High	
		Male	Female	<u>Honor</u>	<u>Honor</u>	
1984-85	ICS,CHE,ME,MSCI	3	1	3	1	4

¹States represented: AL, FL, GA, IL, MS, NC, OH, SC, TN, WV

²States represented: AL, CA, FL, GA, KY, LA, SC, TN, VA, WI

³States represented: AL, FL, GA, SC

⁴States represented: GA, NC



The first student accepted as a President's Scholar.



The first student graduated as a President's Scholar.

Source: President's Scholarship Committee

FALL QUARTER UNDERGRADUATE ENROLLMENT BY COLLEGE 1981-1985

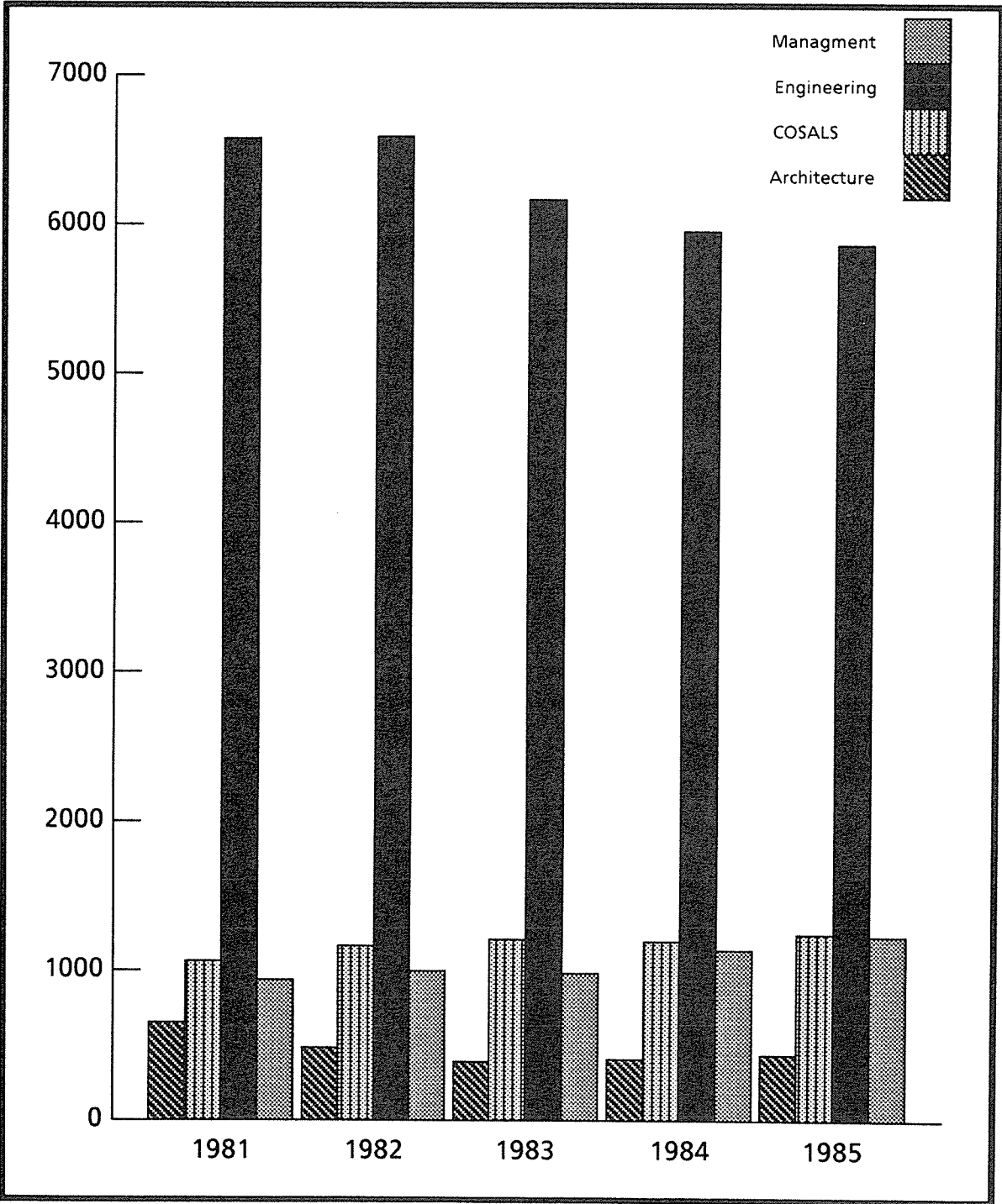
	1981		1982		1983		1984		1985	
	<u>Male</u>	<u>Female</u>	<u>Male</u>	<u>Female</u>	<u>Male</u>	<u>Female</u>	<u>Male</u>	<u>Female</u>	<u>Male</u>	<u>Female</u>
ARCHITECTURE										
TOTAL ARCHITECTURE	429	136	366	129	299	102	314	109	335	112
ENGINEERING										
Aerospace	488	64	557	59	572	67	661	77	628	64
Ceramic	34	9	39	15	29	14	37	11	45	10
Chemical	633	217	593	225	504	205	392	175	354	159
Civil	461	96	389	82	350	75	362	68	370	67
Electrical	1,597	190	1,754	228	1,639	235	1,476	216	1420	210
Engineering Science & Mechanics	68	22	56	21	68	17	83	17	72	13
Health Systems	26	39	26	42	*	*	*	*	*	*
Industrial and Systems	506	268	486	269	501	271	512	277	523	304
Mechanical	1,204	118	1,166	136	986	110	924	113	905	109
Nuclear & Health Physics	122	12	115	18	112	19	112	22	118	18
Textile**	51	36	39	24	53	36	76	42	72	35
Undecided Engineering	241	78	193	71	248	64	260	54	297	73
TOTAL ENGINEERING	5,431	1,149	5,413	1,190	5,062	1,113	4,895	1,072	4,804	1,062
MANAGEMENT										
TOTAL MANAGEMENT	657	288	692	322	700	291	785	356	844	397
SCIENCES & LIBERAL STUDIES (COSALS)										
Applied Biology	58	42	41	29	48	45	52	56	76	57
Chemistry	53	22	40	32	49	27	52	29	49	30
Information & Computer Science	414	159	494	205	460	191	437	164	446	142
Mathematics	26	19	25	15	57	25	62	38	70	47
Physics	135	16	113	23	121	22	137	16	133	20
Psychology	10	21	9	20	15	24	16	25	20	23
Undecided COSALS	66	31	82	45	83	49	64	51	89	50
TOTAL COSALS	762	310	804	369	833	383	820	379	883	369
INSTITUTE SUBTOTAL	7,279	1,883	7,275	2,010	6,894	1,889	6,814	1,916	6,866	1,940
INSTITUTE TOTAL	9,162		9,285		8,783		8,730		8,806	

* Effective July 1, 1983, Health Systems merged with Industrial and Systems Engineering.

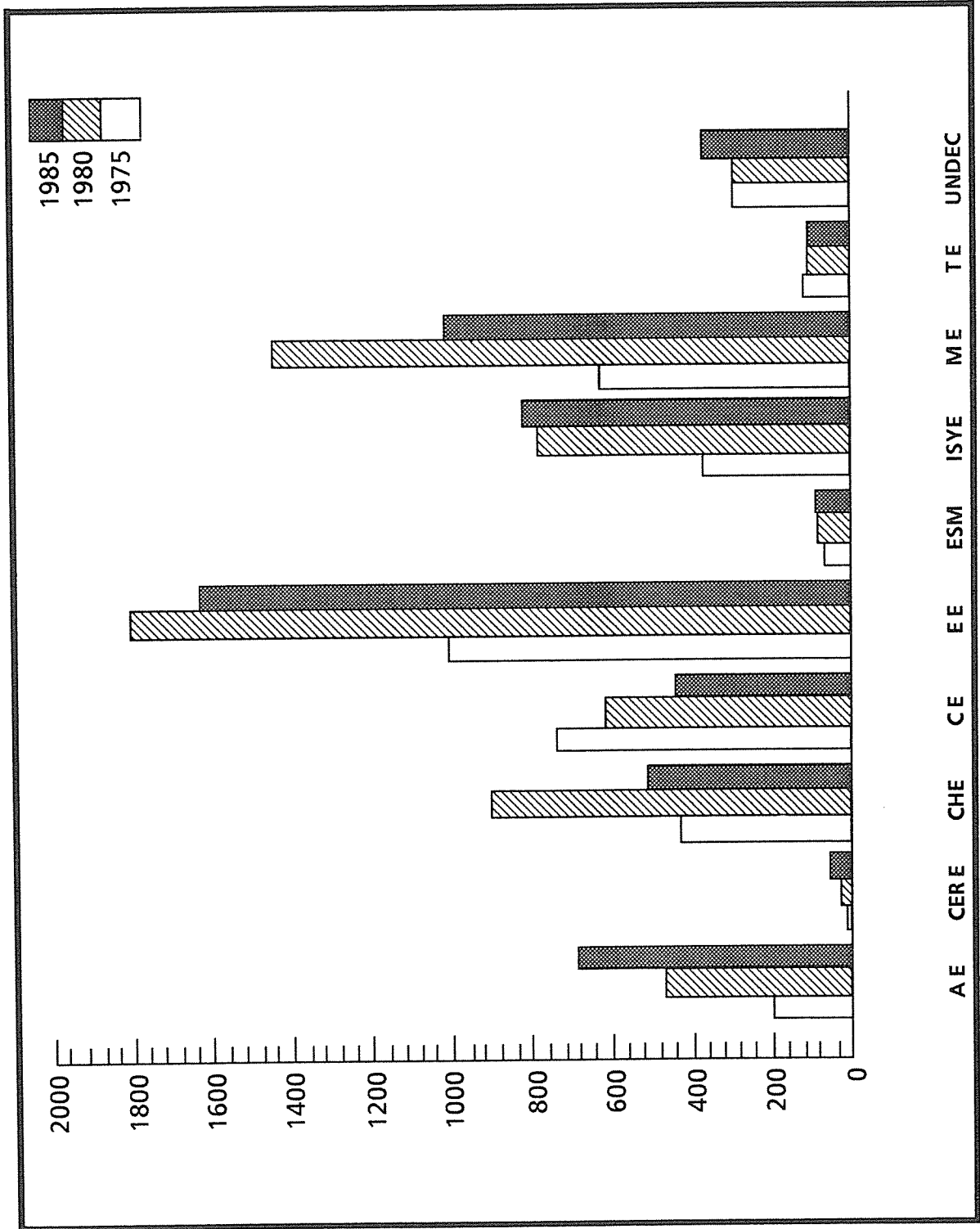
**This includes Textile Chemistry and Textile Engineering

Source: Office of the Registrar

FALL QUARTER UNDERGRADUATE ENROLLMENT BY COLLEGE
1981-1985

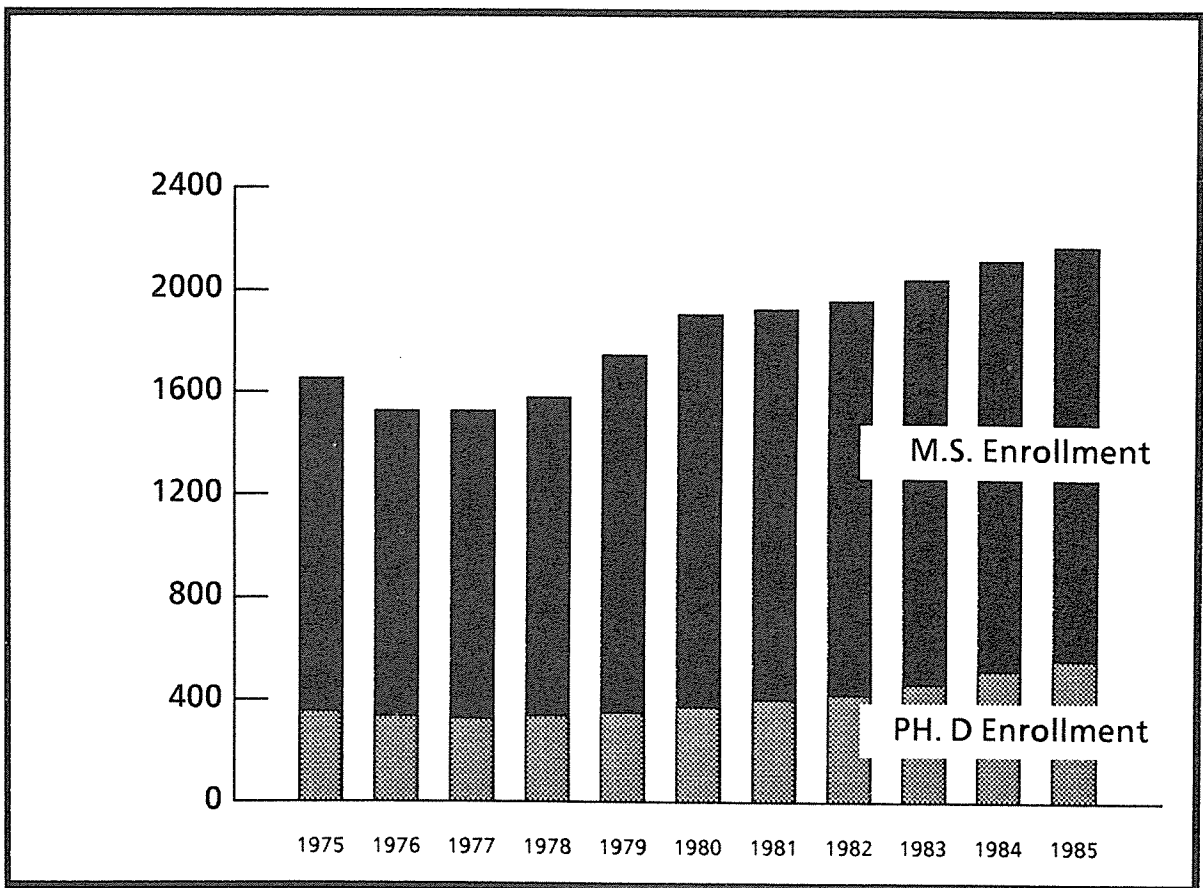


ENGINEERING COLLEGE UNDERGRADUATE ENROLLMENT FALL QUARTERS 1975, 1980, 1985



FALL QUARTER GRADUATE ENROLLMENT BY DEGREE PROGRAM 1975-1985*

	Architecture		Engineering		Management		Sciences & Liberal Studies		Total	
	M.S.	Ph.D	M.S.	Ph.D	M.S.	Ph.D	M.S.	Ph.D	M.S.	Ph.D
1975	134	0	665	186	241	7	255	166	1295	359
1976	136	0	615	184	185	3	261	154	1197	341
1977	160	2	608	164	178	1	255	160	1201	327
1978	174	0	657	181	135	1	284	155	1250	337
1979	215	0	765	190	118	1	312	160	1410	351
1980	220	0	867	205	124	2	335	163	1546	370
1981	221	1	856	236	111	8	342	162	1530	407
1982	213	3	867	253	141	9	326	163	1547	428
1983	232	7	903	261	157	15	291	188	1583	471
1984	224	9	946	292	118	5	316	219	1604	525
1985	217	9	979	314	124	7	301	238	1621	568



*Includes both full and part time Ph.D and M.S. students; does not include special students.

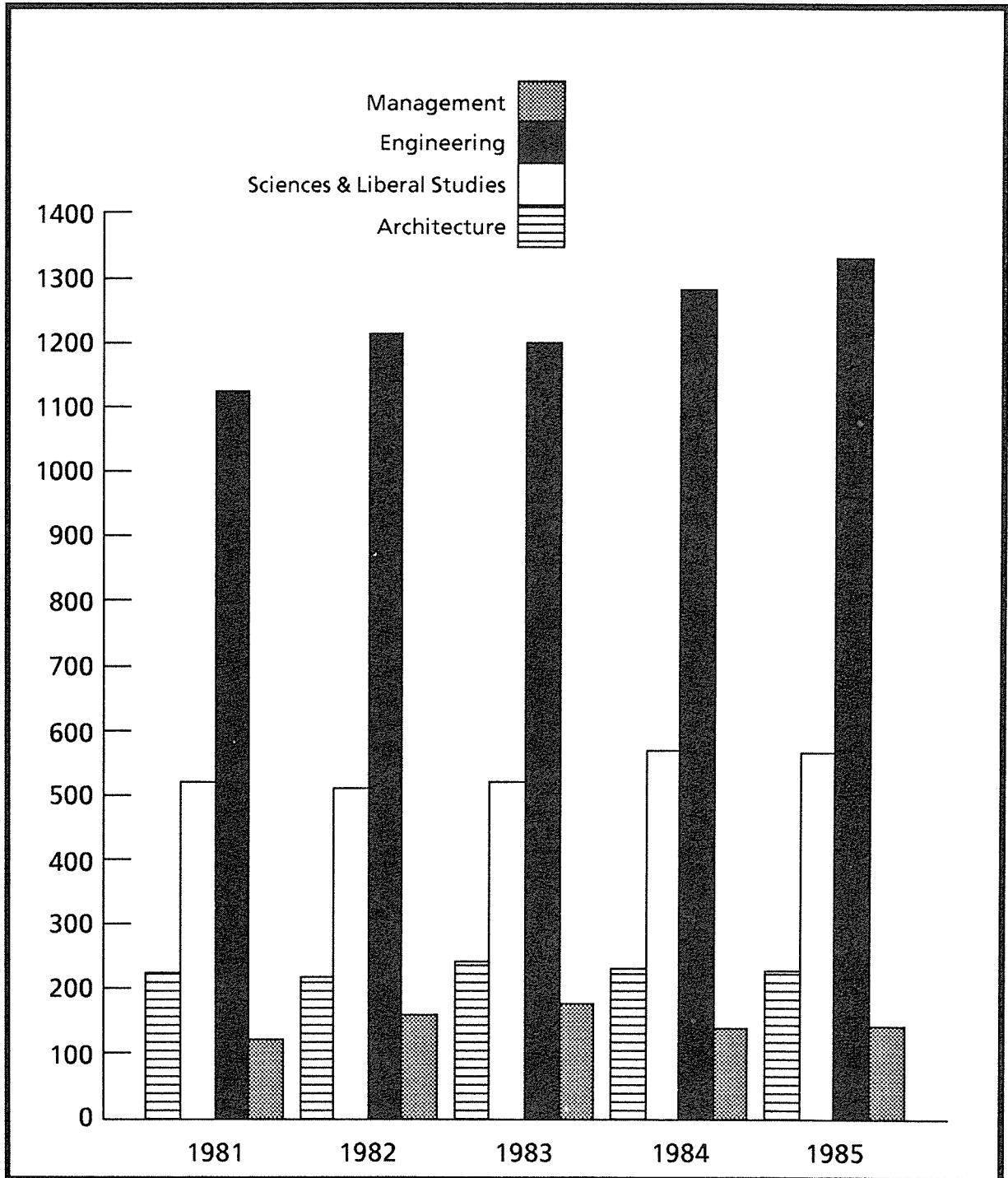
Source: Office of the Registrar

FALL QUARTER GRADUATE ENROLLMENT BY COLLEGE 1981-1985

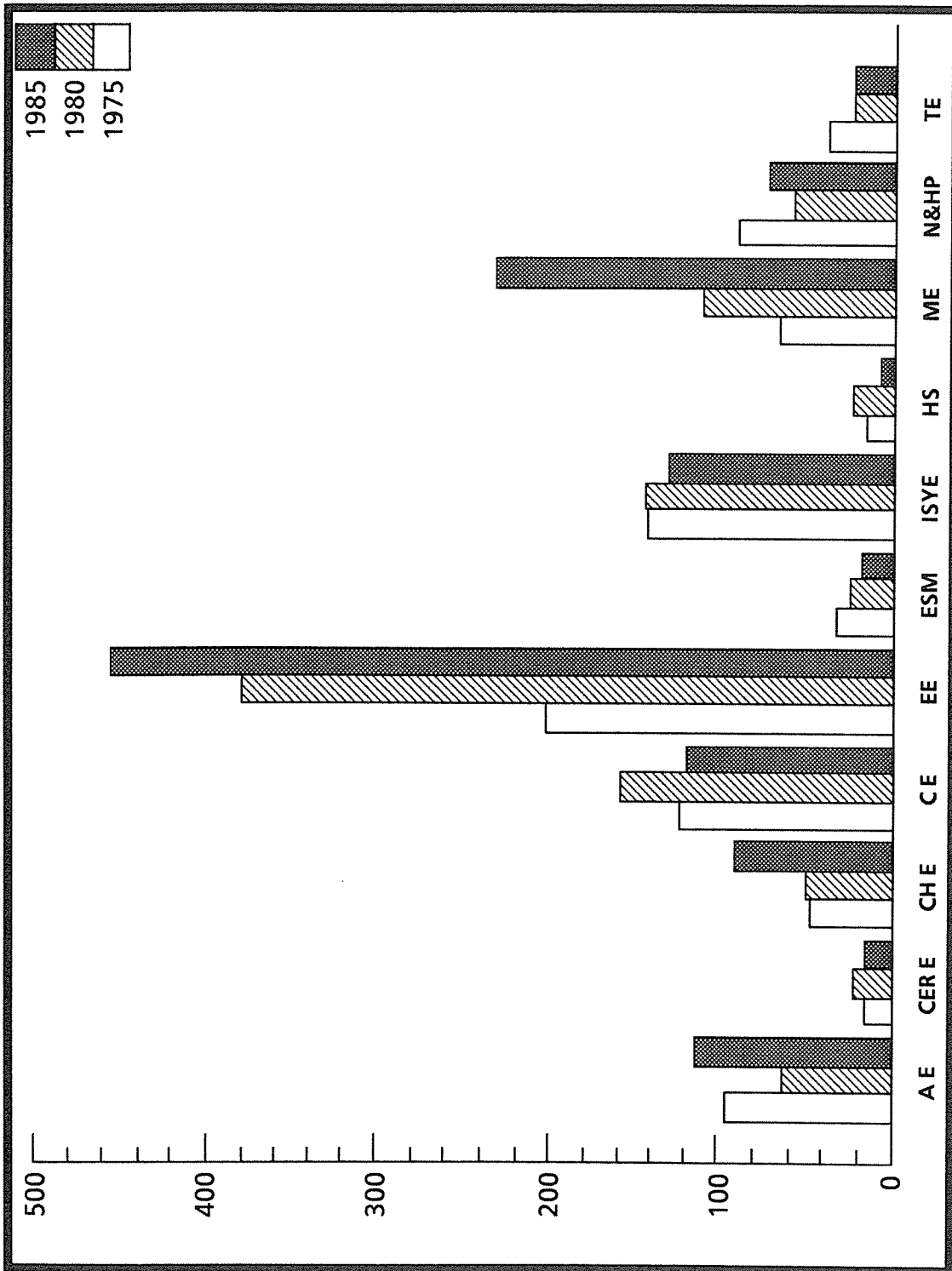
	1981		1982		1983		1984		1985	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
ARCHITECTURE										
TOTAL ARCHITECTURE	162	64	164	56	171	73	159	75	157	71
ENGINEERING										
Aerospace	66	3	76	9	84	8	93	8	103	11
Ceramic	14	3	12	4	11	3	16	2	14	1
Chemical	90	15	93	19	97	21	99	14	72	20
Civil	147	20	147	20	147	13	158	19	110	9
Electrical	350	19	356	61	360	31	336	34	412	43
Environmental Engineering	**	**	**	**	**	**	**	**	12	9
Engineering Science.& Mechanics	18	4	24	4	19	5	19	5	16	3
Health Systems	11	7	14	8	*	*	*	*	*	*
Industrial and Systems	119	22	117	19	135	30	126	35	103	35
Mechanical	120	5	116	9	146	5	193	11	219	12
Metallurgy	**	**	**	**	**	**	**	**	31	0
Nuclear & Health Physics	57	9	60	18	56	8	77	18	17	7
Textile	18	8	16	11	16	5	15	4	15	6
TOTAL ENGINEERING	1,010	115	1,031	182	1,071	129	1,132	150	1,166	166
MANAGEMENT										
TOTAL MANAGEMENT	91	31	116	47	123	54	109	31	103	40
SCIENCES & LIBERAL STUDIES (COSALS)										
Applied Biology	12	7	16	15	15	10	18	14	20	10
Chemistry	63	27	60	31	60	35	66	34	63	31
Geophysical Sciences	54	11	42	12	45	10	42	12	44	9
Information & Computer Science	160	55	164	43	171	39	185	48	183	45
Mathematics	16	4	21	4	23	8	35	9	38	12
Physics	63	8	54	4	48	8	42	8	39	9
Psychology	22	15	24	15	23	18	24	23	22	29
Technology & Science Policy & Undeclared	6 0	1 0	8 0	2 0	6 0	3 0	8 0	4 0	10 1	4 0
TOTAL COSALS	396	128	389	126	391	131	420	152	420	149
INSTITUTE SUBTOTAL	1,659	338	1,700	411	1,756	387	1,820	408	1,846	426
INSTITUTE TOTAL	1,997		2,111		2,143		2,228		2,262	

* Effective July 1, 1983, Health Systems merged with Industrial and Systems Engineering.
 ** Figures not available
 Source: Office of the Registrar

FALL QUARTER GRADUATE ENROLLMENT BY COLLEGE 1981-1985



ENGINEERING COLLEGE GRADUATE ENROLLMENT FALL QUARTERS 1975, 1980, 1985



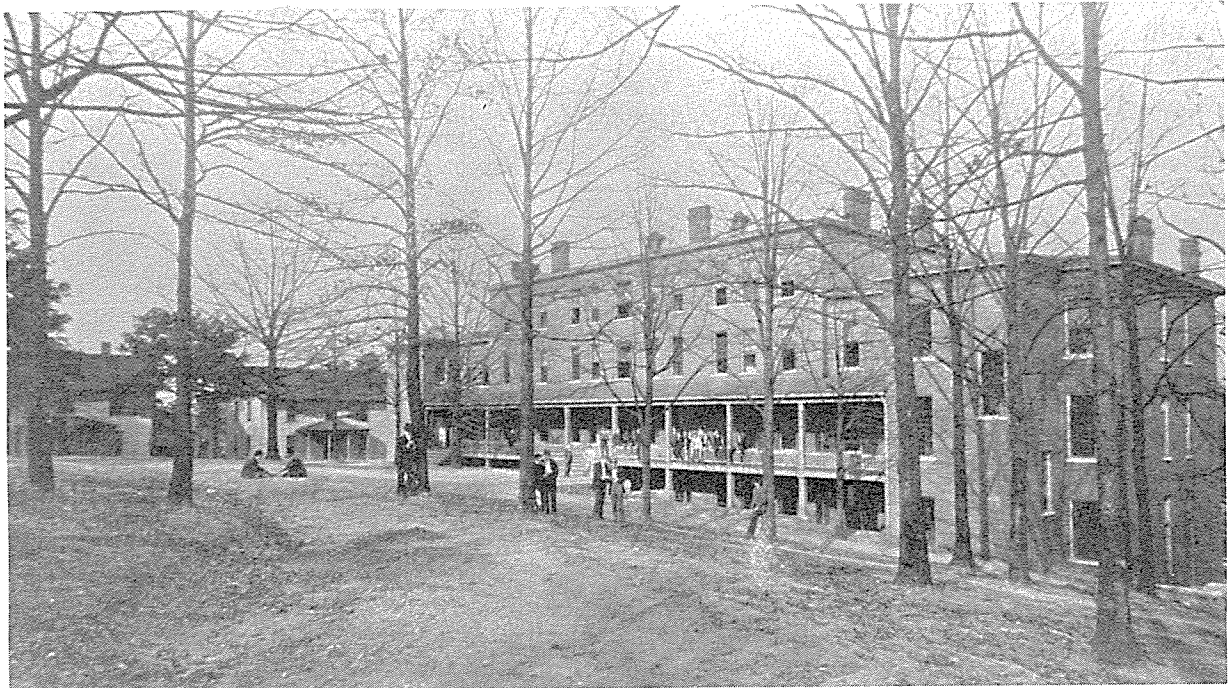
ENROLLMENT BY GEORGIA COUNTIES FALL QUARTER 1985

	<u>Undergrad</u>	<u>Grad</u>	<u>Total</u>		<u>Undergrad</u>	<u>Grad</u>	<u>Total</u>
Appling	5	2	7	Evans	3	0	3
Atkinson	1	0	1	Fannin	4	0	4
Bacon	2	0	2	Fayette	70	2	72
Baker	1	0	1	Floyd	72	5	77
Baldwin	27	2	29	Forsyth	25	3	28
Banks	2	0	2	Franklin	2	1	3
Barrow	17	0	17	Fulton	790	232	1,022
Bartow	31	0	31	Gilmer	7	1	8
Ben Hill	6	1	7	Glynn	48	4	52
Berrien	7	0	7	Gordon	15	1	16
Bibb	143	10	153	Grady	5	0	5
Bleckley	2	0	2	Greene	6	1	7
Brooks	3	0	3	Gwinnett	419	64	483
Bryan	3	1	4	Habersham	24	2	26
Bulloch	18	2	20	Hall	67	8	75
Burke	3	0	3	Hancock	2	0	2
Butts	10	1	11	Haralson	10	0	10
Calhoun	1	0	1	Harris	6	3	9
Camden	8	0	8	Hart	17	1	18
Candler	5	0	5	Heard	1	0	1
Carroll	38	9	47	Henry	28	0	28
Catoosa	24	0	24	Houston	78	9	87
Charlton	0	1	1	Irwin	3	0	3
Chatham	121	20	141	Jackson	9	3	12
Chattooga	12	0	12	Jasper	1	0	1
Cherokee	38	10	48	Jeff Davis	6	0	6
Clarke	52	9	61	Jefferson	5	1	6
Clay	2	0	2	Jenkins	3	0	3
Clayton	204	11	215	Johnson	2	0	2
Clinch	1	0	1	Jones	16	1	17
Cobb	619	157	776	Lamar	11	0	11
Coffee	13	0	13	Lanier	0	1	1
Colquitt	13	0	13	Laurens	20	2	22
Columbia	68	1	69	Lee	4	0	4
Cook	5	0	5	Liberty	12	1	13
Coweta	26	1	27	Lincoln	4	0	4
Crawford	3	1	4	Lowndes	46	8	54
Crisp	12	1	13	Macon	4	0	4
Dade	5	0	5	Madison	4	0	4
Decatur	16	1	17	Marion	1	1	2
DeKalb	1,295	233	1,528	McDuffie	10	1	11
Dodge	7	0	7	Meriwether	6	0	6
Dooly	4	0	4	Miller	2	0	2
Dougherty	76	6	82	Mitchell	6	0	6
Douglas	51	3	54	Monroe	8	0	8
Early	4	0	4	Morgan	5	0	5
Effingham	10	0	10	Murray	7	1	8
Elbert	15	2	17	Muscogee	129	6	135
Emanuel	3	1	4	Newton	15	1	16

ENROLLMENT BY GEORGIA COUNTIES FALL QUARTER 1985

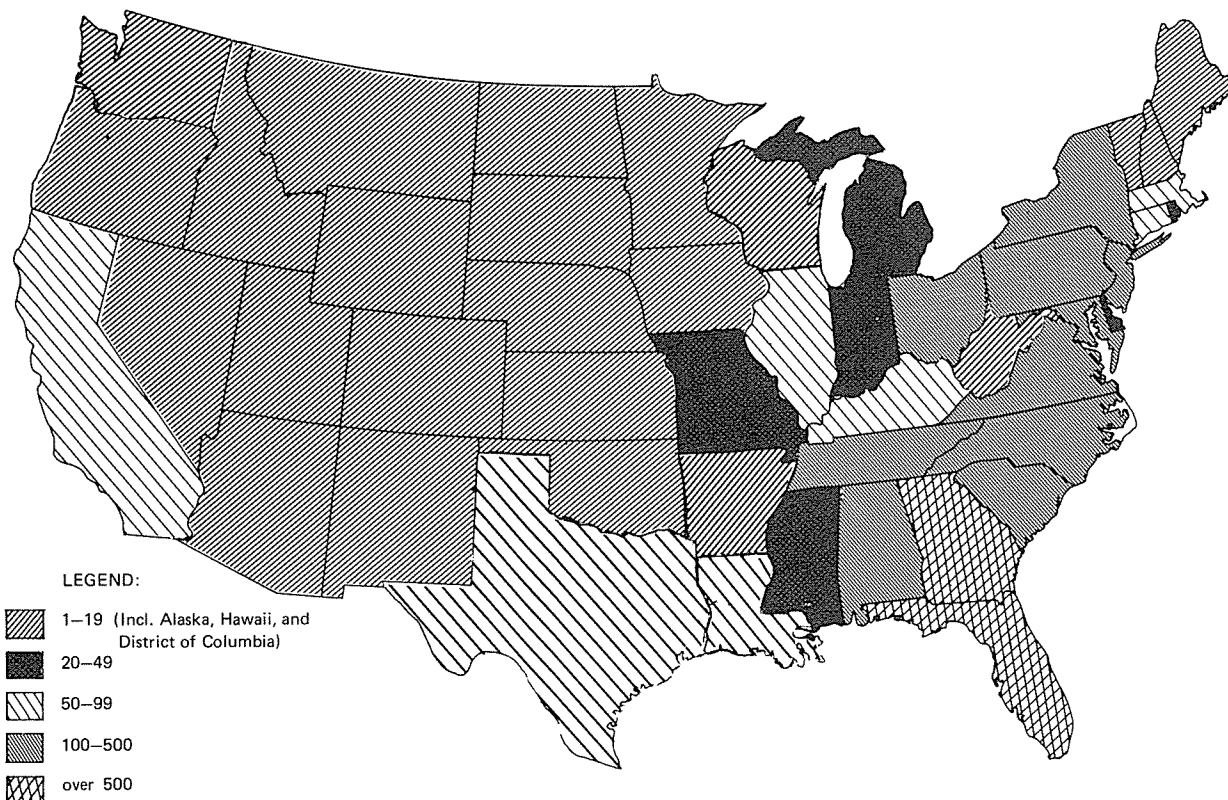
	<u>Undergrad</u>	<u>Grad</u>	<u>Total</u>		<u>Undergrad</u>	<u>Grad</u>	<u>Total</u>
Oconee	3	2	5	Terrell	1	0	1
Oglethorpe	2	0	2	Thomas	20	0	20
Paulding	12	5	17	Tift	11	0	11
Peach	19	0	19	Toombs	14	0	14
Pickens	6	0	6	Towns	1	1	2
Pierce	2	0	2	Troup	24	2	26
Pike	7	0	7	Turner	3	0	3
Polk	16	2	18	Twiggs	3	0	3
Pulaski	2	0	2	Union	2	0	2
Putnam	13	0	13	Upson	17	1	18
Rabun	13	1	14	Walker	18	1	19
Richmond	113	18	131	Walton	15	0	15
Rockdale	58	6	64	Ware	13	2	15
Schley	1	0	1	Warren	2	0	2
Screven	5	1	6	Washington	3	0	3
Seminole	1	0	1	Wayne	10	2	12
Spalding	38	4	42	Wheeler	1	0	1
Stephens	22	2	24	White	5	0	5
Sumter	15	1	16	Whitfield	71	6	77
Talbot	2	0	2	Wilcox	2	0	2
Tattnall	7	0	7	Wilkes	6	1	7
Taylor	1	1	2	Wilkinson	10	0	10
Telfair	3	1	4	Worth	2	0	2
				TOTAL	5,685	910	6,595

Source: Office of the Registrar



Knowles Dormitory, opened in 1897, now houses Business and Finance offices.

ENROLLMENT BY STATES FALL QUARTER 1985



	<u>Undergrad</u>	<u>Grad</u>	<u>Total</u>		<u>Undergrad</u>	<u>Grad</u>	<u>Total</u>
Alabama	190	43	233	Nebraska	1	2	3
Alaska	4	1	5	Nevada	4	1	5
Arizona	5	3	8	New Hampshire	9	4	13
Arkansas	10	5	15	New Jersey	136	32	168
California	36	30	66	New Mexico	0	6	6
Colorado	5	9	14	New York	231	52	283
Connecticut	44	9	53	North Carolina	144	55	199
Delaware	5	6	11	North Dakota	1	0	1
District of Columbia	6	1	7	Ohio	84	28	112
Florida	741	128	869	Oklahoma	9	3	12
Georgia	5,685	910	6,595	Oregon	1	2	3
Hawaii	6	1	7	Pennsylvania	97	40	137
Idaho	0	0	0	Rhode Island	10	4	14
Illinois	26	33	59	South Carolina	199	35	234
Indiana	22	13	35	South Dakota	0	1	1
Iowa	5	6	11	Tennessee	188	49	237
Kansas	8	1	9	Texas	27	36	63
Kentucky	70	14	84	Utah	2	2	4
Louisiana	39	19	58	Vermont	13	2	15
Maine	12	4	16	Virginia	117	43	160
Maryland	170	26	196	Washington	5	3	8
Massachusetts	54	19	73	West Virginia	14	6	20
Michigan	25	16	41	Wisconsin	6	9	15
Minnesota	9	6	15	Wyoming	2	0	2
Mississippi	21	7	28	Other U.S. Territories			
Missouri	23	12	35	& Possessions	65	13	78
Montana	1	2	3	TOTAL	8,587	1,752	10,339

Source: Office of the Registrar

ENROLLMENT BY FOREIGN COUNTRIES FALL QUARTER 1985

	<u>Undergrad</u>	<u>Grad</u>	<u>Total</u>		<u>Undergrad</u>	<u>Grad</u>	<u>Total</u>
Algeria	0	7	7	Jamaica	2	1	3
Antigua	1	0	1	Japan	3	9	12
Argentina	0	1	1	Jordan	2	2	4
Australia	1	0	1	Kenya	0	1	1
Austria	1	0	1	Korea	13	60	73
Bahrain	1	0	1	Kuwait	2	0	2
Bangladesh	2	1	3	Lebanon	21	13	34
Barbados	1	1	2	Liberia	0	1	0
Bermuda	0	1	1	Malaysia	2	2	4
Bolivia	0	1	1	Mexico	1	7	8
Botswana	1	0	1	Nepal	0	1	1
Brazil	5	4	9	Netherlands	2	1	3
British Indian Ocean	1	0	1	Netherlands W. Indies	0	1	1
Burma	0	2	2	Nicaragua	5	1	6
Canada	2	3	5	Nigeria	1	6	7
Chile	1	0	1	Norway	1	0	1
China (People's Republic)	0	49	49	Pakistan	5	4	9
Colombia	7	11	18	Panama	13	3	16
Costa Rica	0	3	3	Paraguay	2	0	2
Cuba	2	0	2	Peru	3	5	8
Cyprus	2	3	5	Philippines	1	4	5
Denmark	1	0	1	Poland	0	2	2
Dominican Republic	1	4	5	Portugal	0	1	1
Ecuador	3	5	8	Saudi Arabia	0	1	1
Egypt (United Arab Republic)	1	9	10	Singapore	1	2	3
El Salvador	1	4	5	South Africa	1	5	6
Finland	1	0	1	Soviet Union	2	1	3
France	1	13	14	Spain	2	1	3
French Guiana	0	2	2	Sri Lanka	2	2	4
Germany (West)	11	12	23	Sweden	3	1	4
Ghana	3	1	4	Switzerland	1	1	2
Greece	4	21	25	Syria	0	5	5
Guatemala	3	0	3	Taiwan (Rep. of China)	9	85	94
Haiti	1	1	2	Tanzania	0	1	1
Honduras	12	2	14	Thailand	0	7	7
Hong Kong	2	10	12	Trinidad	3	0	3
Hungary	0	1	1	Tunisia	6	5	11
Iceland	0	2	2	Turkey	0	13	13
India	7	45	52	United Arab Emirates	2	0	2
Indonesia	0	6	6	United Kingdom	7	4	11
Iran	5	18	23	Venezuela	11	5	16
Iraq	0	1	1	Vietnam	1	0	1
Ireland	0	4	4	Zambia	1	0	1
Israel	1	5	6	Zimbabwe	0	1	1
Italy	2	2	4				
				TOTAL	219	520	739

Source: Office of the Registrar

DEGREES AWARDED BY COLLEGE 1980-1985 (Summer-Spring)

BACHELORS					
<u>College</u>	<u>1980-81</u>	<u>1981-82</u>	<u>1982-83</u>	<u>1983-84</u>	<u>1984-85</u>
ARCHITECTURE					
Total	119	111	109	104	77
ENGINEERING					
Aerospace	45	66	68	80	89
Ceramic	7	10	7	10	8
Chemical	137	154	162	160	165
Civil	136	162	153	103	92
Electrical	329	326	349	404	362
Engineering Science & Mechanics	11	10	12	12	13
Industrial & Systems	216	234	263	208	190
Health Systems	26	19	22	8	11
Mechanical	289	321	317	293	274
Nuclear & Health Physics	15	22	21	22	21
Textile	31	28	18	15	18
Total	1,242	1,352	1,392	1,315	1,243
MANAGEMENT					
Total	277	301	297	256	275
SCIENCES AND LIBERAL STUDIES (COSALS)					
Applied Biology	15	16	16	12	11
Chemistry	15	25	20	13	15
Information & Computer Science	56	61	85	88	121
Mathematics	15	10	5	12	7
Physics	43	45	39	40	31
Psychology	9	14	6	4	9
Total	153	171	171	169	194
MASTERS					
ARCHITECTURE					
Total	70	116	68	73	68
ENGINEERING					
Aerospace	11	16	11	22	25
Ceramic	11	6	5	5	5
Chemical	27	22	33	18	27
Civil	75	47	58	60	64
Electrical	122	171	140	159	160
Engineering Science & Mechanics	9	7	4	4	10
Industrial & Systems	53	49	37	69	49
Health Systems	16	6	8	5	6
Mechanical	47	43	48	52	72
Nuclear & Health Physics	16	23	31	25	18
Textile	7	8	6	7	6
Total	394	398	381	426	442
MANAGEMENT					
Total	58	43	44	82	55
SCIENCES AND LIBERAL STUDIES (COSALS)					
Applied Biology	4	1	3	4	4
Chemistry	9	4	7	6	4
Geophysical Sciences	17	24	9	10	16
Information & Computer Science	80	69	48	62	66
Mathematics	6	5	4	10	5
Physics	12	20	12	16	13
Psychology	5	8	9	3	3
Social Sciences	-	-	2	2	2
Total	133	131	94	113	113

DEGREES AWARDED BY COLLEGE 1980-1985 (Summer-Spring)

PH.D

<u>College</u>	<u>1980-81</u>	<u>1981-82</u>	<u>1982-83</u>	<u>1983-84</u>	<u>1984-85</u>
ENGINEERING					
Aerospace	8	7	13	8	7
Ceramic	-	1	1	-	1
Chemical	1	5	6	7	4
Civil	4	6	6	5	4
Electrical	4	3	4	8	7
Engineering Science & Mechanics	1	-	3	3	0
Industrial & Systems	3	4	9	9	7
Mechanical	3	3	3	7	2
Nuclear & Health Physics	5	1	6	6	2
Textiles	-	1	-	1	1
Total	29	31	51	54	35
MANAGEMENT					
Total	-	-	-	4	1
SCIENCES AND LIBERAL STUDIES (COSALS)					
Chemistry	9	14	5	15	13
Geophysical Sciences	1	-	2	1	2
Information & Computer Science	3	2	2	1	2
Mathematics	3	2	3	-	2
Physics	3	8	9	1	5
Psychology	2	2	2	8	5
Total	21	28	23	26	29

FIVE YEAR SUMMARY

Architecture					
Bachelors	119	111	109	104	77
Masters	70	116	68	73	68
Total	189	227	177	177	145
Engineering					
Bachelors	1,242	1,352	1,392	1,315	1,243
Masters	394	398	381	426	442
Doctorate	29	31	51	54	35
Total	1,665	1,781	1,824	1,795	1,720
Management					
Bachelors	277	301	297	256	275
Masters	58	43	44	82	55
Doctorate	0	0	0	4	1
Total	335	344	341	342	331
Sciences & Liberal Studies					
Bachelors	153	171	171	169	194
Masters	133	131	94	113	113
Doctorate	21	28	23	26	29
Total	307	330	288	308	336
Institute					
Bachelors	1,791	1,935	1,969	1,844	1,789
Masters	655	688	587	694	678
Doctorate	50	59	74	84	65
Total	2,496	2,682	2,630	2,622	2,532

Source: Office of the Registrar

AVERAGE FALL QUARTER GRADE POINT AVERAGES 1980-1984

	<u>1980</u>	<u>1981</u>	<u>1982</u>	<u>1983</u>	<u>1984</u>
UNDERGRADUATE					
<u>Freshman</u>					
Architecture	2.5	2.3	2.2	2.3	2.2
Engineering	2.6	2.6	2.5	2.5	2.5
Management	2.1	2.2	2.1	2.2	2.2
Sciences & Liberal Studies	2.5	2.4	2.4	2.4	2.4
Total	2.4	2.5	2.5	2.4	2.4
<u>Sophomore</u>					
Architecture	2.4	2.4	2.5	2.5	2.5
Engineering	2.6	2.6	2.5	2.6	2.6
Management	2.3	2.3	2.3	2.3	2.3
Sciences & Liberal Studies	2.5	2.6	2.6	2.6	2.6
Total	2.5	2.6	2.3	2.6	2.6
<u>Junior</u>					
Architecture	2.5	2.6	2.5	2.5	2.7
Engineering	2.6	2.6	2.6	2.6	2.7
Management	2.5	2.6	2.4	2.5	2.5
Sciences & Liberal Studies	2.8	2.7	2.6	2.6	2.7
Total	22.6	2.6	2.5	2.6	2.6
<u>Senior</u>					
Architecture	2.6	2.6	2.5	2.6	2.7
Engineering	2.7	2.5	2.7	2.7	2.7
Management	2.5	2.5	2.5	2.5	2.4
Sciences & Liberal Studies	22.8	2.8	2.8	2.7	2.7
Total	2.7	2.7	2.7	2.7	2.7
<u>Total Undergraduate</u>					
Architecture	2.5	2.5	2.5	2.5	2.5
Engineering	2.6	2.6	2.6	2.6	2.7
Management	2.4	2.4	2.4	2.4	2.4
Sciences & Liberal Studies	2.6	2.6	2.6	2.6	2.6
Total	2.6	2.6	2.6	2.6	2.6
GRADUATE					
<u>All Graduate Students</u>					
Architecture	3.3	3.3	3.3	3.3	3.3
Engineering	3.4	3.4	3.4	3.4	3.5
Management	3.2	3.4	3.4	3.4	3.3
Sciences & Liberal Studies	3.4	3.4	3.4	3.4	3.5
Total	3.4	3.4	3.4	3.4	3.5

Source: Office of the Registrar

STUDENT CREDIT HOURS* FALL QUARTER 1985

	<u>LOWER DIVISION</u>	<u>UPPER DIVISION</u>	<u>GRADUATE DIVISION</u>	<u>TOTAL</u>
Architecture				
Fall Quarter, 1985	2,723	3,045	3,458	9,226
Total of Previous Year ¹	6,578	8,616	7,057	22,251
Engineering				
Fall Quarter, 1985	7,343	34,950	23,567	65,860
Total of Previous Year ¹	20,625	128,179	40,327	189,131
Management				
Fall Quarter, 1985	4,260	7,444	2,322	14,026
Total of Previous Year ¹	14,234	24,469	5,221	43,924
Sciences and Liberal Studies				
Fall Quarter, 1985	68,119	19,543	10,931	98,593
Total of Previous Year ¹	186,906	63,900	18,148	268,954
Institute				
Fall Quarter, 1985	82,445	64,981	40,278	187,705
Total of Previous Year ¹	228,343	225,164	70,753	524,260

*Student credit hours produced reflect the number of credit hours per course multiplied by the number of students in the course. The number of credit hours per course are calculated by (1) weighting courses with labs so that Total Credit Hours = Number of Lecture Hours + $\frac{1}{2}$ Number of Lab Hours and (2) for courses without labs, Total Credit Hours = Total Course Hours.

¹Total of Previous Year reflects student credit hours produced for Fall, Winter, Spring, and Summer Quarters 1984-1985.



The first two female students graduated from Georgia Tech in 1956.

Source: Office of the Registrar

ACADEMIC FACULTY PROFILE*

(As of June, 1985)

DISTRIBUTION BY RANK

	<u>Professor</u>	Associate <u>Professor</u>	Assistant <u>Professor</u>	<u>Instructor</u>	<u>Lecturer</u>	<u>Total</u>
Full-Time Teaching Faculty	214	150	125	6	0	495
General Administrators	17	1	1	1	0	20
Academic Administrators	40	10	0	0	0	50
Librarians	1	7	2	0	0	10
On-Leave	4	10	3	0	0	17
Part-Time Faculty ^a	<u>3</u>	<u>3</u>	<u>3</u>	<u>2</u>	<u>0</u>	<u>11</u>
Total	279	181	134	9	0	603

DISTRIBUTION BY HIGHEST DEGREE

	<u>Doctorate</u>	**First Professional	Ed. Spec/ <u>Master's</u>	<u>Bachelor</u>	<u>Total</u>
Full-Time Teaching Faculty	440	1	47	7	495
General Administrators	18	0	2	0	20
Academic Administrators	44	0	5	1	50
Librarians	0	0	10	0	10
On-Leave	16	0	1	0	17
Part-Time Faculty ^a	<u>4</u>	<u>1</u>	<u>4</u>	<u>2</u>	<u>11</u>
Total	522	2	69	10	603

DISTRIBUTION BY RACE AND SEX

	<u>Black Male</u>	<u>White Male</u>	<u>Other Male</u>	<u>Black Female</u>	<u>White Female</u>	<u>Other Female</u>	<u>Total</u>
Full-Time Teaching Faculty	4	417	36	3	34	1	495
General Administrators	0	16	0	0	4	0	20
Academic Administrators	0	46	2	1	1	0	50
Librarians	0	2	0	1	7	0	10
On-Leave	0	14	0	0	2	1	17
Part-Time Faculty ^a	<u>0</u>	<u>10</u>	<u>0</u>	<u>0</u>	<u>1</u>	<u>0</u>	<u>11</u>
Total	4	505	38	5	49	2	603

*Includes only those persons with academic rank.

^aIncludes only those part-time faculty (less than .75 EFT) who are on contract; does not include part-time faculty who are hired on a per course, per quarter basis as needed.

**Includes M.D.,J.D.,D.V.M.,D.D.S.

Source: Office of the Vice President for Academic Affairs

RESEARCH PERSONNEL PROFILE

As of September 30, 1985

	Full-Time		Part-Time		
	GTRI	Academic ^a	GTRI ^b	Academic ^c	Total
<u>RESEARCH FACULTY</u>					
DISTRIBUTION BY TITLE					
Principal E/S/T/A ^d	63	5	8	0	76
Senior E/S/T/A	186	32	10	4	232
Research II E/S/T/A	153	59	8	1	221
Research I E/S/T/A	163	62	6	1	232
Post Doctoral Fellows	<u>0</u>	<u>27</u>	<u>0</u>	<u>0</u>	<u>27</u>
Total	565	*187	32	6	*790
DISTRIBUTION BY DEGREE					
Doctorate	98	82	9	3	192
First Professional ^e	2	4	0	1	7
Masters	266	45	12	2	325
Bachelors	191	44	9	0	244
Other	4	6	0	0	10
No Degree	<u>4</u>	<u>6</u>	<u>2</u>	<u>0</u>	<u>12</u>
Total	565	187	32	6	790
DISTRIBUTION BY RACE AND SEX					
Black Males	7	10	0	1	18
White Males	482	*131	31	3	647
All Other Males	7	23	1	2	33
Black Females	2	2	0	0	4
White Females	66	16	0	0	82
All Other Females	<u>1</u>	<u>5</u>	<u>0</u>	<u>0</u>	<u>6</u>
Total	565	187	32	6	790
<u>GRADUATE RESEARCH ASSISTANTS</u>			68	596	664

^a Includes OCA

^b Includes Hourly, Alien, and Adjunct Personnel

^c Includes Visiting/Adjunct Personnel

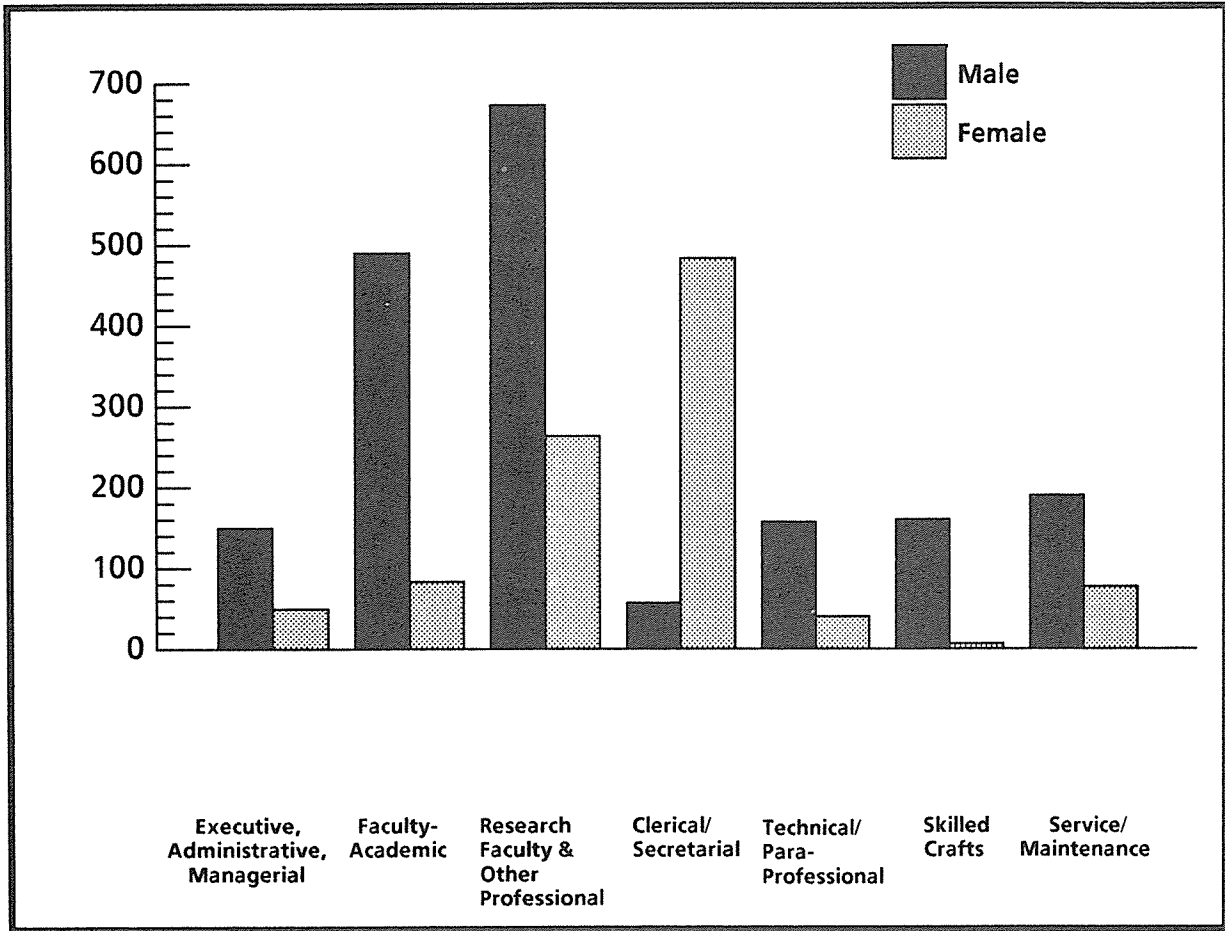
^d Engineer/Scientist/Technologist/Associate

^e Includes J.D.'s and M.D.'s

* Includes two Non-research titled professionals

Source: Office of the Vice President for Research

TOTAL EMPLOYEE PROFILE (As of January 1985)



<u>EEO Code</u>	<u>Category</u>	<u>White</u>		<u>Black</u>		<u>Other^a</u>		<u>Total</u>	
		Male	Female	Male	Female	Male	Female	Male	Female
1	Executive, Administrative, Managerial	141	43	9	7	0	0	150	50
2	Faculty-Academic ^b	462	78	3	7	28	1	493	86
3	Research Faculty & Other Professionals	644	238	17	23	14	3	675	264
4	Clerical and Secretarial	34	339	22	139	1	8	57	486
5	Technical and Para-Professional	149	36	8	3	1	2	158	41
6	Skilled Crafts	123	6	39	2	1	0	163	8
7	Service and Maintenance	45	16	143	63	4	0	192	79
	TOTAL	1598	756	241	244	49	14	1888	1014

^aIncludes Hispanic, Asian, and Native Americans.

^bIncludes librarians.

Source: Work Force Analysis

General Information



GEORGIA TECH 1885-1985

DESIGNING TOMORROW TODAY

STUDENT SERVICES

Georgia Tech seeks to provide services and activities to encourage and assist students in their physical development and to develop their capabilities both as professionals and as human beings. Specific programs include:

Housing. Twenty-four on-campus residence halls house 3,102 males and 1,098 females, and apartments are provided for 298 married students. The Residence Hall Association (RHA) provides numerous social, academic, and recreational activities. The Off-Campus Housing Office provides information to more than 1,000 students per year.

Health Services. The Student Health Center is a modern Ambulatory Care Center with facilities for out-patient treatment, X-ray examinations, physical therapy, a medical laboratory, and beds for thirty patients.

The staff consists of five full-time physicians, visiting consultants in psychiatry and radiology, registered nurses, physician assistants, and medical technicians. Physicians and dentists on the consulting staff represent all medical and dental specialties; their services are available on a fee-for-service basis.

Student Health fees cover regular on-campus services during school terms. A supplemental insurance plan which covers consultations, referrals to other physicians or hospitals, and medical problems that occur off-campus, is available to all students.

Food Services. Six dining locations, catering services and a meal plan are available to all students.

Campus Police. The Georgia Tech Campus Police support the educational and research activities of the Institute by providing for the law enforcement, security and safety needs of the community. The Campus Police are available to provide services to the community 24 hours a day, 7 days a week. All officers of the department are certified by the Georgia Peace Officer Standards and Training Council and receive professional training on a continuous basis. The Campus Police can be reached at telephone number 894-2500.

Counseling Services. Professional counselors are available to help students who have personal problems, motivational problems, study problems or concerns about choosing a career, a major, or another college. The career information service includes a computerized interactive guidance and information system, study skills instruction, and a library of film strips, videotapes and cassettes containing information about careers.

Recreation. The Callaway Student Athletic Complex features two multi-purpose gymnasiums for basketball, volleyball, and badminton. Other areas include weight training for men and women, table tennis, racquetball/handball/squash courts, and a 25-meter swimming pool with connecting diving well. The building houses the Intramural Department and the Physical Education Department

Student Center. The Student Center contains facilities and staff services for all types of out-of-classroom special interest and social programs. A professional program staff and numerous student committees provide a complete range of social, artistic, cultural, and recreational programs for the Tech community. The Student Center also offers a full-service Post Office, a hair styling salon and a quick copy center.

STUDENT SERVICES

Fraternities and Sororities. Located on the campus are twenty-nine national social fraternities, with total membership of 1,700, and seven national social sororities, with a membership of 425 women.

Student Organizations. Opportunities are provided for student participation in a variety of officially recognized groups. Besides the traditional student newspaper, yearbook, and radio station, there are approximately 23 sports/recreation organizations; 86 special interest groups; 13 religious organizations; 36 departmental, professional, and honor societies; and 10 national honor societies. Over 5,000 students are involved in one or more student organizations.

New Student/Parent Programs. The student/parent orientation program informs new students and their parents of academic programs and requirements and familiarizes them with Tech traditions and the activities and services available on campus.



The first fraternity on the Tech campus chartered in 1888

Source: Office of the Division of Student Affairs

LIBRARY

The Price Gilbert Memorial Library's scientific, engineering, architectural, and management collection includes over 1,920,000 bibliographic units and 2,415,000 microtexts.

The library has a collection of over 4,400,000 patents, the largest in the Southeast. The library acquires research reports from the National Technical Information Service, the U. S. Department of Energy, and the National Aeronautics and Space Administration. It is a depository for publications issued by the U. S. Government Printing Office and for maps issued by the U. S. Defense Mapping Agency, Topographic and Aerospace Center, U. S. Geological Survey, and the U. S. National Oceanic Survey.

Currently, over 28,000 serials, including 6,300 periodicals, are received, approximately 75 percent of which are in scientific and technical fields. Especially strong is the collection of abstracts, indices, and bibliographies for science and engineering.

The catalog record of the library collection has been converted to computer output microfilm (COM). The COM catalog is located on each floor of the library, in selected dormitory areas, in the Student Center, and in each academic and research department. During FY86, the library will be installing an online information system which will be available to all library users when the implementation is complete. Twice daily, books and other library documents are delivered to requesting faculty. The Georgia Tech library participates in consortium with thirteen other libraries in the Atlanta area and in Athens, Georgia, and offers a union catalog of the holdings of all member libraries. Borrowing reciprocity between Georgia Tech and Georgia State University provides the students and faculty of each institution with direct access to the collections of both libraries.

The library's vast store of information is also available to individuals and businesses outside the Georgia Tech community. The on-demand information service offered is financed from fees charged for services rendered. Available are computer or manual search services, copying services, and loan services.

Source: Office of the Director, Price Gilbert Memorial Library

PHYSICAL FACILITIES

SQUARE FOOTAGE BY FUNCTIONAL AREA FALL, 1985

INSTRUCTION		
General Academic	<u>950,528</u>	950,528
ORGANIZED RESEARCH		
Research Center (GTRI)	313,611	
Individual or Project Research	<u>270,044</u>	583,655
PUBLIC SERVICE		
Community Education	<u>18,897</u>	18,897
ACADEMIC SUPPORT		
Libraries	140,576	
Audio/Visual	2,540	
Computing Support	18,221	
Academic Administration & Personnel Development	<u>6,070</u>	167,407
STUDENT SERVICES		
Social and Cultural Development	288,114	
Counseling and Career Guidance	5,320	
Student Support	<u>751,435</u>	1,044,869
INSTITUTIONAL SUPPORT		
Executive Management	10,700	
Fiscal Operations	25,187	
General Administration Services	18,264	
Logistical Services	22,564	
Physical Plant Operations	65,377	
Faculty and Staff Services	7,700	
Community Relations	<u>10,738</u>	160,530
INDEPENDENT OPERATIONS		
Outside Agencies	16,862	
Investment Property	<u>28,650</u>	45,512
UNASSIGNED		
Scheduled for Renovation	<u>48,736</u>	48,736
BUILDING SERVICES		
Circulation, Mechanical, Construction, Custodial	<u>1,624,273</u>	<u>1,624,273</u>
GRAND TOTAL		4,644,407

Source: Office of the Vice President for Planning

FINANCIAL AID AND SCHOLARSHIPS

Private industry, businesses, foundations, and individuals as well as state and federal governments, provide a wide spectrum of scholarship, grant, loan, and work awards for deserving Georgia Tech students. During the 1984-85 academic year, the funds available to our students grew by more than three quarters of a million dollars and represents the third largest year of activity in the history of the Financial Aid office. During the 1984-85 year, over 10 million dollars was distributed to Georgia Tech students.

Since 1981 the support for Georgia Tech scholarships has shown a 61% increase. The Grants program from the State of Georgia has increased by 22.6%. Also, the Guaranteed Student Loans, which are guaranteed and subsidized by the federal government, have increased.

For the 1984-85 academic year, Georgia Tech enrolled 364 Merit Scholars* and 78 Achievement Scholars*. These students are selected through national competition based primarily on their Preliminary Scholastic Aptitude Test scores. The Scholars are selected without regard to financial need; however, the values of individual awards are determined by the financial circumstances of the families. For the 1984-85 school year, Georgia Tech ranked 13th in the nation in National Merit enrollment and 5th in National Achievement standing. Georgia Tech continues to rank number one among public schools in the percentage of National Merit and National Achievement freshman enrolled.

In 1981, Georgia Tech awarded President's Scholarships* for the first time, honoring exceptional young people with demonstrated intellectual talents, outstanding leadership ability, and a desire to meet the challenge of the future. The concept behind the President's Scholarship Program is to retain Georgia's brightest students and attract them to Georgia Tech, and to encourage outstanding non-Georgians to attend Tech. The awards are the most prestigious scholarships available to entering freshmen, and some of them provide total costs (for Georgia residents). The program fosters and rewards academic excellence, enriches the classroom environment, and enhances the academic image of the Institute. In the 1984-85 academic year, ninety-one students were enrolled in the program.

* See pages 15, 16, and 17 for additional statistics regarding these programs
Source: Office of the Director, Financial Aid

SUMMARY OF MAJOR PROGRAMS OF STUDENT FINANCIAL ASSISTANCE

	1983-84		1984-85	
	<u>NUMBER OF AWARDS</u>	<u>AMOUNT OF AWARDS</u>	<u>NUMBER OF AWARDS</u>	<u>AMOUNT OF AWARDS</u>
<u>GEORGIA TECH AWARDS</u>				
National Direct Students Loans	1,109	\$608,626	1,117	\$617,302
Supplementary Ed. Oppor. Grants	541	229,974	558	235,518
College Work-Study Program	278	415,117	223	266,368
Pell Grants	<u>1,111</u>	<u>1,140,729</u>	<u>1,073</u>	<u>1,226,249</u>
SUBTOTAL Federal Funds	<u>3,039</u>	<u>2,394,446</u>	<u>2,971</u>	<u>\$2,345,437</u>
Georgia Tech National Merit	284	201,730	284	\$202,060
Georgia Tech National Achievement	<u>37</u>	<u>26,005</u>	<u>31</u>	<u>42,301</u>
SUBTOTAL Merit/Achievement	<u>321</u>	<u>227,735</u>	<u>315</u>	<u>\$244,361</u>
Institutional Scholarships	1,413	1,341,404	1,566	\$1,529,679
Ga Tech Long Term Loans			4	2,000
Short Term Loans	1,304	843,185	1,354	957,653
Emergency Loans	<u>60</u>	<u>8,021</u>	<u>28</u>	<u>3,892</u>
SUBTOTAL GEORGIA TECH AID	<u>6,137</u>	<u>4,814,791</u>	<u>6,238</u>	<u>\$5,083,022</u>
<u>OUTSIDE AWARDS</u>				
Georgia Incentive Scholarships	589	173,600	690	\$212,875
Miscellaneous Scholarships	594	584,598	657	639,620
Miscellaneous Grants	43	34,279	39	34,830
Georgia Guaranteed Loans	850	1,772,256	946	2,095,038
Guaranteed Loans - Other States	898	2,159,344	937	2,239,701
Miscellaneous Loans	<u>27</u>	<u>45,553</u>	<u>41</u>	<u>55,472</u>
SUBTOTAL OUTSIDE AID	<u>3,001</u>	<u>4,769,630</u>	<u>3,310</u>	<u>\$5,277,536</u>
TOTAL	<u>9,138</u>	<u>\$9,584,421</u>	<u>9,548</u>	<u>\$10,360,558</u>

Source: Office of the Director, Financial Aid

ROTC SCHOLARSHIPS: 1984-85 Academic Year

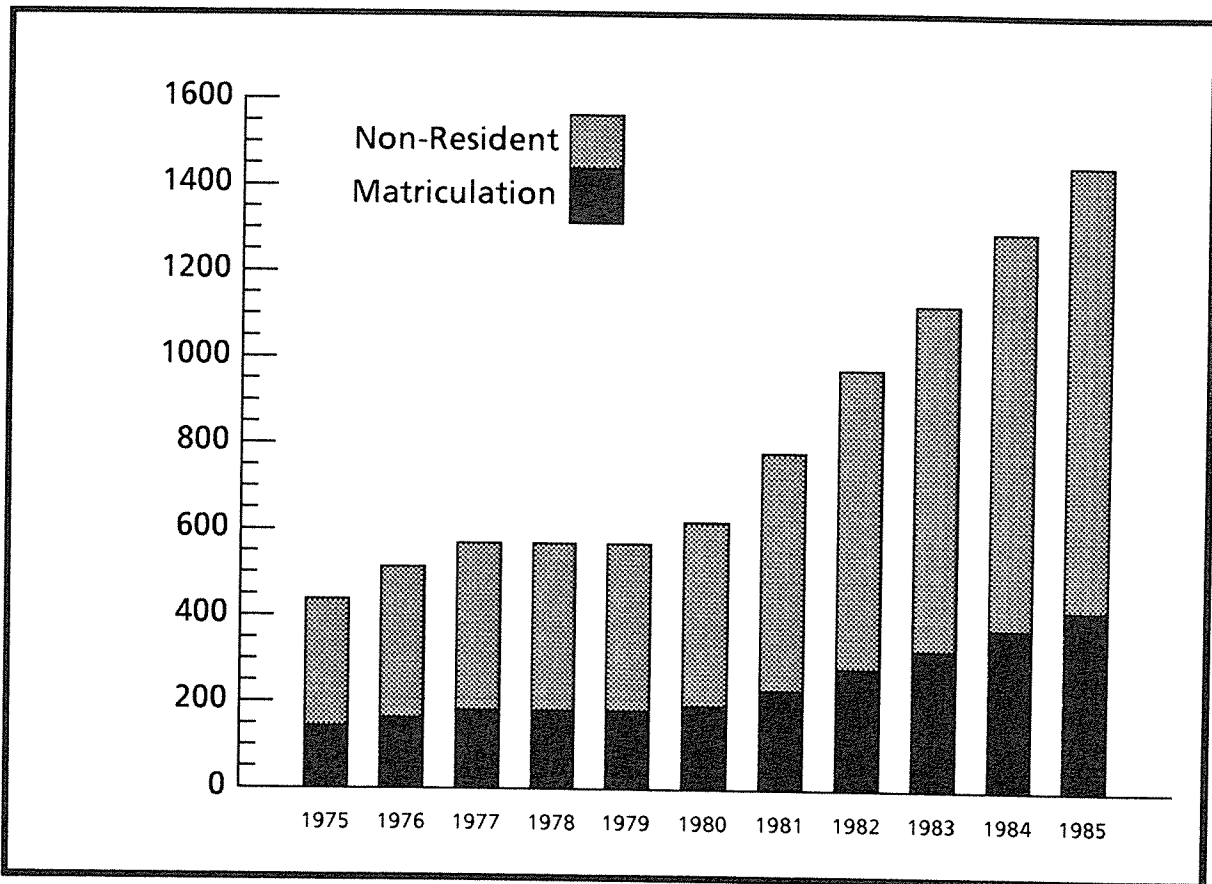
ROTC Scholarships pay tuition, academic fees, and subsistence. Currently, the scholarship is worth \$3,000 per year to Georgia residents and \$6,000 to non-residents.

Average Number of Students on Scholarships
376

Total Amount of Scholarships
\$1,710,000

Source: Office of the Commanding Officer, Navy ROTC

MATRICULATION AND TUITION FEES FALL QUARTERS 1975-1985



<u>Year</u>	<u>Matriculation Fee*</u> (Resident & Non-Resident)	<u>Non-Resident Tuition Fee*</u>	<u>Total Non- Resident</u> (Matriculation & Tuition)
1975	\$145	\$295	\$440
1976	168	354	522
1977	185	389	574
1978	185	389	574
1979	185	389	574
1980	195	430	625
1981	236	550	786
1982	285	696	981
1983	328	800	1,128
1984	377	920	1,297
1985	424	1,035	1,459

*These fees are for full-time students.

Source: Office of the Vice President, Business and Finance

COOPERATIVE PLAN

Since 1912, Georgia Tech has offered a five-year cooperative program to those students who wish to combine industrial work experience with classroom studies. Students who enroll in this program alternate between industrial assignments and classroom studies on a quarterly basis, completing the same course work on the campus which is completed by regular four-year students. Graduates of the program are awarded a degree in their particular field of specialization with the designation "Cooperative Plan."

Industrial work gives cooperative students an opportunity to develop their career interests and to become more confident in their career choices. Students also are given an opportunity to develop skills in human relations through their work experiences. They are paid for their work in industry and are able to save a portion of their salaries which can be applied toward educational expenses.

The Georgia Power Company was one of the first employers of cooperative plan students. Among the more than 400 companies who participate are the Georgia Power Company, the Georgia Tech Research Institute, DuPont de Nemours & Co., Inc., Lockheed-Georgia Company, the Tennessee Valley Authority, the State of Georgia, General Electric Company, Westinghouse Electric Company, IBM Corporation, ITT Rayonier, Inc., Combustion Engineering, Inc., Tennessee Eastman Company, Hughes Aircraft Company, Philip Morris U.S.A., NASA, Columbia Nitrogen Company, and General Motors Corporation.

Cooperative Division Six-Year Comparison

	<u>1979-1980</u>	<u>1984-1985</u>	<u>Percent Increase</u>
Cumulative Enrollment	2,113	2,350	11%
Student Graduates	236	358	52%

Number of Cooperative Students by Major: Spring Quarter 1985

Aerospace Engineering	132	Information & Computer Science	174
Ceramic Engineering	8	Management	129
Chemical Engineering	171	Mathematics	10
Chemistry	10	Mechanical Engineering	360
Civil Engineering	77	Nuclear Engineering	27
Electrical Engineering	718	Physics	22
Engineering Science & Mechanics	22	Textile Engineering	<u>21</u>
Industrial & Systems Engineering	194	Total	2,075

Source: Office of the Director, Cooperative Division

RESERVE OFFICER TRAINING CORPS (ROTC)

ARMY ROTC

Tech's Army ROTC program was one of the original ROTC units established by Congress in June, 1916. Today nearly 100 students representing each of Tech's major schools and disciplines participate in a military science curriculum that integrates the classroom with field training experiences. Cadets can volunteer for airborne, air assault, northern warfare, jungle, flight, and ranger schools during the summer. Tech's Army ROTC program also supports over 400 students from the following cross-enrolled schools: Morris Brown, Morehouse, Spelman, Clark College, Atlanta University, Kennesaw College, Southern Tech, Berry College, Shorter College, Floyd Junior College, and Emory's School of Nursing.

In addition to its regular four-year scholarship program, Army ROTC provides two-and three-year competitive scholarships. Tech students may apply for these scholarships without prior enrollment in the ROTC program. These scholarships pay tuition and all academic-related fees plus \$100 per month while the student is enrolled in Military Science. Approximately seventy-five Army ROTC cadets today are under full tuition Army scholarships. Students enrolled in Army ROTC, both scholarship and non-scholarship, may participate in the Cooperative Degree program. In addition, a Department of the Army Scientific and Engineering Cooperative Program is open to Army ROTC participants.

Army ROTC is available for both men and women. Entry can be made anytime prior to the junior year. The program of instruction consists of two phases: basic and advanced. The basic military course, which normally occurs during freshman and sophomore years, explores the contemporary Army in today's society and provides an introduction to principles of management and leadership. The advanced curriculum focuses on situational leadership, ethics, and American defense policies.

Upon successful completion of ROTC, Tech graduates advance to a wide range of officer specialities that maximize individual talents and academic backgrounds. Commissions as Lieutenant are awarded to all branches of service designated, and commissioned service is executed as a member of either the Regular (Active) Army, the U.S. Army Reserve, or the U.S. Army National Guard.

Sources Office of the Commanding Officer, Army ROTC

ROTC

NAVY ROTC

The Navy ROTC Unit at Georgia Tech is one of the original six Naval ROTC units established in 1926. The Tech Unit is one of the largest in the country; currently enrollment stands at approximately 350, including 100 midshipmen cross-enrolled with other metropolitan Atlanta colleges and universities. Over seventy-five percent of the midshipmen are on scholarship (tuition and fees, books, uniforms, and \$100 per month). Students attending Georgia Tech not already on four-year ROTC scholarships may enroll in naval science courses and compete for scholarships providing up to 3 1/2 years of benefits. Midshipmen take naval science courses each term covering such subjects as naval engineering, weapons systems, navigation, and leadership. Successful completion leads to a regular commission as a Second Lieutenant, U.S. Marine Corps or Ensign, U. S. Navy. Challenging and rewarding careers await the new officers in Naval Aviation, Submarine, and Surface Line as well as Marine Corps ground or aviation.

AIR FORCE ROTC

An Army Air Corps ROTC unit was established at Georgia Tech in September, 1946. When the Air Force gained separate and independent status under the National Security Act of 1947, the unit became part of the U. S. Air Force.

All phases of Air Force ROTC are open to both men and women. Students enrolled in the four-year program may compete for four, three, or two-year scholarships (tuition, fees, books, uniforms, plus \$100 per month). The Air Force ROTC program at Georgia Tech consists of a General Military Course and a Professional Officer Course. The General Military Course covers the development of air power, and the contemporary Air Force in the context of U. S. military organization, and is generally taken during the freshman and sophomore years. The Professional Officer Course covers Air Force management, leadership, and American defense policy and is taken during the junior and senior years.

Students from Agnes Scott, Southern Tech, Georgia State, Morehouse, Clark, Morris Brown, and Spelman may take Air Force ROTC on the Georgia Tech campus and are eligible to compete for scholarships. Air Force ROTC enrollment at Georgia Tech is normally 300 students, of which about 200 have full scholarships. Each year, approximately 50 graduates are commissioned as Second Lieutenants into the U. S. Air Force.

Office of the Commanding Officer, Navy ROTC

Office of the Commanding Officer, Air Force ROTC

INFORMATION TECHNOLOGY

INFORMATION TECHNOLOGY

Information technology has by now become an integral and crucial part of virtually all administrative, instructional, and research units of the Georgia Institute of Technology. These widely dispersed information processing activities are coordinated and given policy guidance by the Assistant to the President for Information Technology acting at the direction of the Executive Committee on Information Technology (ECIT). The ECIT is comprised of the Executive Assistant to the President and the Vice Presidents for Academic Affairs, Research, and Business and Finance. The following three administrative units are directly engaged in providing the Institute with information technology facilities and services.

OFFICE OF COMPUTING SERVICES (OCS)

Georgia Tech has available a wide range of computer facilities including four mainframe computers, more than 40 minicomputers, and more than 2,500 personal computers with communication capabilities. A number of the larger facilities are managed by the Office of Computing Services (OCS), which offers facilities management support to the campus as a whole, and which, in addition, is responsible for the operation of a large central computing facility. The computer center currently houses two Control Data Cyber 180/885 systems coupled to an IBM 4381 and to a large array of disk drive, magnetic tape units, data communications devices, and printing devices, including a Xerox 9700 laser printer. By the end of this calendar year, OCS will also have a Cyber 990 computer with vector capabilities and high-speed (32 MIP) scalar capabilities.

In addition to the central facilities described above, there are numerous satellite computer activities devoted to special campus projects; these activities are conducted through a wide variety of dedicated machines, including IBM equipment in the 4300 series, AT&T 3B20's, Digital Equipment Corporation VAX's, Control Data 810 and 830 systems, and equipment from such other major vendors as Burroughs, Data General, Harris, Hewlett-Packard, Perkin-Elmer, Pyramid, Xerox, and others. A number of these satellite facilities are managed by OCS, including a laboratory of Xerox 1108's and 8014's used to support advanced instruction in artificial intelligence.

INFORMATION TECHNOLOGY

The various computer mainframes, minicomputers, and microcomputers dispersed throughout the Georgia Tech campus are linked by GTNET, the Institute's advanced data communications network.

Recent multi-million-dollar grants from IBM, Control Data, and other major corporations have made it possible for Tech to proceed with the development of two world class centers for research in the areas of computer-assisted research and development. One is a center for research in the areas of computer-assisted engineering, design, and manufacturing (CAE/CAD/CAM); the other is a center for R&D projects to develop software and courseware for engineering education and to explore and extend the educational uses of state-of-the-art developments in expert systems, decision-making, and distributed intelligence.

INFORMATION SYSTEMS AND APPLICATIONS (ISA)

To carry out Georgia Tech's mission in education, research, and public service, the Administration must have reliable information available upon which to base its decisions. The purpose of Information Systems and Applications is to support administration users in providing well-defined, highly responsive information systems. In carrying out this mission, ISA has four broad objectives:

- to define the future software environment under which Georgia Tech will operate
- to provide information systems that meet current and future needs through commercial software or ISA developed programs
- to consolidate the existing systems into a unified institutional data base
- to evolve into an Information Center

OFFICE OF TELECOMMUNICATIONS AND NETWORKING (OTN)

The Office of Telecommunications and Networking was established to provide data, voice, and video communication at Georgia Tech. OTN's major function is to design, implement, and manage the networking activities of GTNET, the Georgia Tech Network. OTN consists of two departments: Services and Engineering. Services determines networking needs, coordinates plans for implementation, and provides user support services. The Engineering Department focuses on network design, maintenance, and performance.

INFORMATION TECHNOLOGY

GTNET is an advanced data communications network providing faculty, students, and staff with direct access to Georgia Tech's computing resources. GTNET began its cross-campus communications in January 1983, with 48 network ports. Today, a five-mile broadband "backbone", spanning the campus' 128 buildings, supports more than 2,380 network ports interconnecting a score of computers and includes such technologies as:

- baseband networks, providing intra-building communications
- fiber optics cable bridging baseband networks together
- microwave providing network access to remote sections of the campus
- dialup modem banks providing network connections to GTNET from off-campus
- dedicated highspeed telephone lines extending GTNET to remote off campus locations.

The Network Operations Center (NOC) is a centralized network support facility created as an extension of the The Office of Telecommunications and Networking and the Office of Computing Services. NOC provides 24-hour assistance to GTNET users who may be experiencing network difficulties, or are in need of network information. It is expected that the services provided by NOC will grow in parallel with the network, both meeting the new and changing needs of the GTNET user community.

Through GTNET, faculty, staff and students have the opportunity to access world-wide information databases through the services provided by BITNET, CSNET, and ARPANET. In addition, a highspeed data link between Georgia Tech and the University of Georgia provides connection to the computing resources of USCN, the University System Computer Network.

Source: Assistant to the President, Information Technology

ATHLETIC ASSOCIATION

The Georgia Tech Athletic Association is a non-profit organization that is responsible for maintaining the intercollegiate athletic program at Georgia Tech. The Athletic Association is overseen by the Georgia Tech Athletic Board which is composed of seven faculty members, three alumni members, and three student members. The Board is chaired by the President of the Institute. The on-going operations of the Athletic Association are managed by the Director of Athletics, Homer Rice, and his staff.

The Athletic Association consists of the following departments: Sports Medicine, Facilities, Football, Basketball, Non-Revenue Sports, Business Office, Ticket Office, Academic Advisor, Sports Promotion, and Sports Information and Media Relations offices. In addition, the Alexander-Tharpe Fund raises funds to support intercollegiate athletics. The Fund offers scholarships and other forms of assistance for student athletes at Tech.

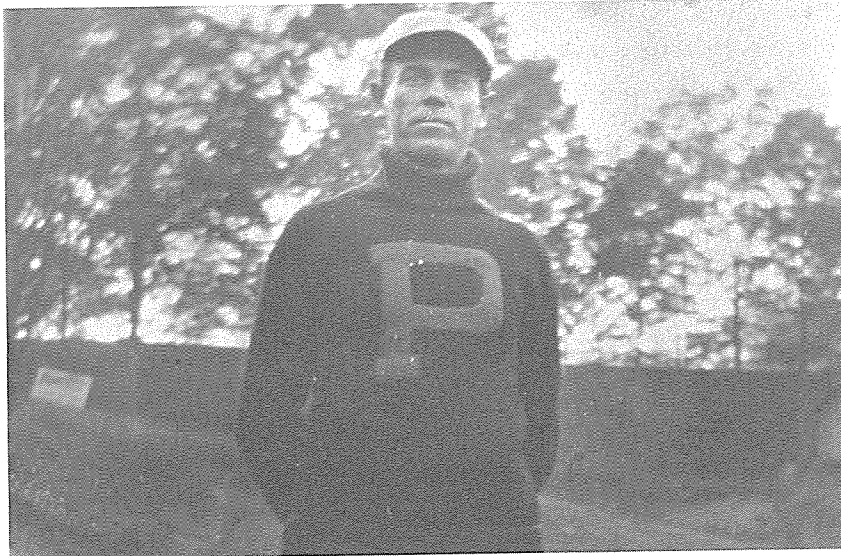
The Georgia Tech Athletic Association is a service organization for several constituent groups: the Tech student-athletes, student body, faculty and staff, alumni and friends, sports media and general community. The primary purpose of the Athletic Association is to direct each student-athlete towards growing as a total person, earning a meaningful degree, becoming a good citizen, and developing as an athlete. The basic obligation to all of these groups is two-fold: 1) to develop and maintain a competitive athletic program that can be a source of pride, and 2) to allow members of these groups the opportunity to become involved in the program, whether as participants, contributors, or spectators.

ATHLETIC ASSOCIATION

The Georgia Tech athletic tradition is almost as old as the school itself and continues to be an important part of the Tech heritage. The first football team was formed in 1892 and from that initial season until 1903 was coached by an assortment of volunteers, most notably Lt. Leonard Wood (who later became famous as the colonel in command of Roosevelt's Rough Riders and the man who captured Geronimo). In 1904 Tech hired its first full-time football coach, John Heisman, for whom the Heisman Trophy was named. Over the last 79 years Tech has had only seven full-time head football coaches: John Heisman, Bill Alexander, Bobby Dodd, Bud Carson, Bill Fulcher, Pepper Rodgers, and Bill Curry.

The Tech football history is indeed rich and includes such notable events as three national championships (1917, 1928, and 1952), 22 bowl game appearances (14 wins, 8 losses) and 41 All-Americans. The Tech legend includes more than football, however, and many other great names have made sports history at Georgia Tech--Bobby Jones (golf), Roger Kaiser and Rich Yunkus (basketball), and Ed Hamm (track-world record holder and Olympic performer). Tech was well represented at the 1984 Summer Olympic Games with students Antonio McKay, gold and bronze medal winner in track and field, Mark Smith, fencer, and Gordon Scarlett, swimmer.

ATHLETIC ASSOCIATION



John Heisman came to Tech as coach in 1904 and stayed for 16 seasons.

The Georgia Tech Athletic program includes 16 intercollegiate athletic teams (10 men's and 6 women's). During the 1984-85 school year 316 student-athletes competed in these sports:

<u>Men's Teams</u>	<u>Head Coaches</u>	<u>Number of Participants</u>
Baseball	Jim Morris	36
Basketball	Bobby Cremins	11
Cross Country	Mike Spino	7
Football	Bill Curry	100
Golf	Puggy Blackmon	15
Gymnastics	Bill Beavers	15
Swimming	Herb McAuley	19
Tennis	Gery Groslimond	9
Track	Buddy Fowlkes	25
Wrestling	Lowell Lange	19
<u>Women's Teams*</u>	<u>Head Coaches</u>	<u>Number of Participants</u>
Basketball	Bernadette McGlade*	11
Cross Country	Dee Todd	10
Softball	Terry Chambers	13
Tennis	Julie Wrege	15
Volleyball	Judy Sackfield	11
Track	Dee Todd	**

*Bernadette McGlade is the Assistant Director of Athletics - Women's Sports
 ** new program, numbers not yet available.

ATHLETIC ASSOCIATION



Baseball team mascot 1907-1908.

The Athletic Association also sponsors the Georgia Tech Band, Pep Band, Reckettes (drill team), cheerleaders, and Solid Gold (recruiting assistants), as well as student trainers and managers.

<u>Group</u>	<u>Number of Participants</u>
Band	175
Pep Band	47
Reckettes	20
Cheerleaders	15
Solid Gold	40
Student Trainers	11
Student Managers	12

Source: Office of the Director, Athletic Association

GEORGIA TECH FOUNDATION

The Georgia Tech Foundation, Inc. was chartered in 1932 to "promote in various ways the cause of higher education in the state of Georgia; to receive funds for the support and enhancement of the Georgia Institute of Technology; and to aid the Georgia Institute of Technology in its development as a leading educational institution." It is a non-profit corporation which receives, administers, and distributes virtually all contributions made in support of the Georgia Institute of Technology. It has been certified by the Internal Revenue Service of the United States and the Department of National Revenue-Taxations of Canada as a tax-exempt organization.

The Board of Trustees of the Foundation is composed of thirty-four individuals distinguished by success in their chosen profession and their long-time interest in, service to, and support of the Institute. These Trustees include the president, president-elect, and immediate past president of the Alumni Association and chairman of the National Advisory Board as *ex-officio* members. The trustees are elected to four-year terms, and may be elected to serve no more than two consecutive full terms on the Board. Eighteen emeritus trustees continue to advise the Foundation and actively support the Institute.

The office of the Foundation is located in the L. W. "Chip" Robert Alumni/Faculty House on North Avenue.

The fund balance of the Foundation as of June 30, 1985 was \$44,433,113. The Foundation provides monies for:

- supplements to faculty salaries;
- faculty professional and curriculum development;
- faculty and staff recruiting;
- student loans, scholarships, and fellowships, such as National Merit Scholars, National Achievement Scholars, and President's Scholars;
- various other special projects.

Elected Officers

L. Travis Brannon, Jr., President
John E. Aderhold, Vice-President
Robert H. Ferst, Treasurer

Source: Office of the Vice President, Institute Relations and Development

CORPORATE RELATIONS AND PLACEMENT

The Office of Corporate Relations and Placement is located in the Fred W. Ajax Placement Center on Hemphill Avenue. The office coordinates the Institute's annual corporate development effort which totaled almost \$12 million in 1984-85. In addition, the office serves the Georgia Tech community with a variety of placement services, including opportunities for full-time, as well as part-time, temporary, and summer employment. One of the primary objectives of the office is to assist students in determining career objectives and in attaining career and employment goals.

A library which includes information on specific employers, governmental services, and special publications related to employment is maintained by the Office of Corporate Relations and Placement. Also, the office keeps local and national salary data, employment patterns of Georgia Tech graduates (employers, types of positions, and work locations), and graduate and professional school information. Other services include seminars on the employment process, resume preparation, effective interviewing techniques, and letter writing campaigns. In addition, the office issues a resume book and maintains an open resume file for employer review.

Assistance is available to employers in the planning, implementation, and administration of programs that encourage effective corporate-campus relations at Georgia Tech. This service includes stimulating and encouraging corporate support through financial grants, fellowships, scholarships, faculty support, and equipment.

Over 700 employers annually interact directly with the Office of Corporate Relations and Placement. These employers represent a substantial number of the Fortune 500 corporations, as well as many state and regional organizations.

Source: Office of the Director, Corporate Relations and Placement

REPORTED STARTING MONTHLY SALARIES

The average starting monthly salary offers shown reflect only those Fall 1984 - Summer 1985 graduates who received employment offers in private industry and government through the Office of Corporate Relations and Placement. These offers were computed from employer correspondence only. Only curricula with some available data are listed. Government figures are shown in parenthesis.

<u>CURRICULUM</u>	<u>DEGREE</u>	<u>HIGH OFFER</u>	<u>LOW OFFER</u>	<u>AVERAGE OFFER</u>	<u>NUMBER OF OFFERS</u>
Aerospace Engineering	Bachelors	\$2,700(1,931)	\$1,983(1,559)	\$2,306(1,642)	43(9)
	Masters	2,687	2,550	2,618	2
Applied Biology	Doctorate	2,550	2,550	2,550	1
Applied Mathematics	Bachelors	1,850	1,763	1,806	2
Applied Physics	Bachelors	*4,208	*4,208	*4,208	1
Ceramic Engineering	Bachelors	2,392	2,250	2,297	3
Chemical Engineering	Bachelors	2,675(1,931)	1,858(1,558)	2,407(1,868)	82(6)
	Masters	2,833(2,157)	2,375(2,157)	2,620(2,157)	15(1)
	Doctorate	3,625	3,458	3513	5
Chemistry	Doctorate	3,095	3,000	3,048	2
Civil Engineering	Bachelors	2,585(1,931)	1,760(1,865)	2,101(1,914)	39(4)
	Masters	2,615(2,165)	2,000(2,165)	2,396((2,165)	4(1)
Electrical Engineering	Bachelors	3,100(2,009)	1,733(1,559)	2,423(1,718)	241(11)
	Masters	3,750(2,165)	2,100(2,165)	2,770(2,165)	73(1)
	Doctorate	3,333	2,816	2,999	3
Engineering Science and Mechanics	Bachelors	2,650(1,931)	2,333(1,931)	2,492(1,931)	2(1)
Geophysical Sciences	Masters	2,730	2,625	2,676	3
Health Physics	Masters	2,360	2,360	2,360	1
Industrial and Systems Engineering	Bachelors	2,730(1,931)	1,751(1,505)	2,250(1,701)	86(4)
	Masters	2,875(1,448)	2,320(1,448)	2,592(1,448)	10(1)
	Doctorate	3,750	3,750	3,750	1
Information & Computer Science	Bachelors	2,708(1,961)	1,792(1,486)	2,316(1,802)	19(3)
	Masters	3,000(1,963)	2,333(1,963)	2,740(1,963)	13(1)
Management	Bachelors	2,167	1,500	1,798	41
	Masters	3,166	1,958	2,497	18

*This offer was made for employment outside of the United States.

REPORTED STARTING MONTHLY SALARIES

<u>CURRICULUM</u>	<u>DEGREE</u>	<u>HIGH OFFER</u>	<u>LOW OFFER</u>	<u>AVERAGE OFFER</u>	<u>NUMBER OF OFFERS</u>
Management Science	Bachelors	\$2,041	\$1,500	\$1,819	4
Mechanical Engineering	Bachelors	2,767(1,931)	1,300(1,449)	2,276(1,710)	151(33)
	Masters	3,333(2,165)	2,100(2,165)	2,631(2,165)	14(1)
Nuclear Engineering	Bachelors	2,371	2,250	2,310	3
	Masters	2,590(2,165)	2,583(2,165)	2,587(2,165)	2(1)
Operations Research	Masters	2,300	2,300	2,300	1
Physics	Bachelors	2,100(1,199)	2,100(1,199)	2,100((1,199)	1(1)
	Masters	2,730	2,730	2,730	1
	Doctorate	3,608	3,075	3,305	4
Psychology	Bachelors	2,275	2,275	2,275	1
	Masters	2,882	2,882	2,882	1
	Doctorate	3,167	3,167	3,167	1
Textiles	Bachelors	2,600	1,651	1,936	14
	Masters	2,291	2,291	2,291	1
TOTAL NUMBER OF OFFERS REPORTED:					988

AVERAGE MONTHLY OFFERS

<u>DEGREE</u>	<u>1983-84</u>		<u>1984-85</u>		<u>PERCENT CHANGE (In avg. mo. offers)</u>
	<u>Offer</u>	<u>No. Offers</u>	<u>Offer</u>	<u>No. Offers</u>	
All B.S. Degrees	\$2,212	673	\$2,248	805	+ 2.0
B.S. Sciences and Liberal Studies	1,921	95	2,243	28	+ 17.0
B. Engineering	2,212	578	2,279	732	+ 3.0
B. Management	1,707	52	1,800	45	+ 6.0
All M.S. Degrees	2,420	177	2,646	166	+ 9.0
M.S. Sciences and Liberal Studies	***	***	2,703	18	***
M.S. Engineering	2,505	151	2,659	129	+ 7.0
M.S. Management	***	***	2,493	18	***
All Ph.D Degrees	2,710	17	3,255	17	+ 20.0

Source: Office of the Director, Corporate Relations and Placement

REPORTED POST-GRADUATION PLANS

Summary of post-graduation plans for 1984-1985 Georgia Tech graduates who reported their plans to the Office of Corporate Relations and Placement.

September 1984 Graduates

<u>College</u>	<u>Number Reporting</u>	<u>Accepted Employment</u>	<u>Graduate School</u>	<u>Entering Military</u>	<u>Continuing Search</u>
Architecture	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Engineering	6	3 (50%)	1 (17%)	1 (17%)	1 (16%)
Management	1	1 (100%)	0 (0%)	0 (0%)	0 (0%)
Sciences & Liberal Studies	<u>1</u>	<u>1 (100%)</u>	<u>0 (0%)</u>	<u>0 (0%)</u>	<u>0 (0%)</u>
Total	8	5 (63%)	1 (13%)	1 (13%)	1 (13%)

December 1984 Graduates

Architecture	1	0 (0%)	0 (0%)	0 (0%)	1 (100%)
Engineering	22	10 (46%)	1 (4%)	2 (9%)	9 (41%)
Management	3	1 (33%)	0 (0%)	0 (0%)	2 (67%)
Sciences & Liberal Studies	<u>5</u>	<u>2 (40%)</u>	<u>1 (20%)</u>	<u>0 (0%)</u>	<u>2 (40%)</u>
Total	31	13 (42%)	2 (7%)	2 (7%)	14 (46%)

March 1985 Graduates

Architecture	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Engineering	136	48 (35%)	8 (6%)	1 (1%)	79 (58%)
Management	3	2 (67%)	1 (33%)	0 (0%)	0 (0%)
Sciences & Liberal Studies	<u>27</u>	<u>12 (44%)</u>	<u>1 (4%)</u>	<u>0 (0%)</u>	<u>14 (52%)</u>
Total	166	62 (38%)	10 (6%)	1 (1%)	93 (56%)

June 1985 Graduates

Architecture	4	1 (25%)	1 (25%)	0 (0%)	2 (50%)
Engineering	250	145 (58%)	10 (4%)	7 (3%)	84 (33%)
Management	34	14 (41%)	3 (9%)	0 (0%)	16 (47%)
Sciences & Liberal Studies	<u>41</u>	<u>19 (46%)</u>	<u>2 (5%)</u>	<u>0 (0%)</u>	<u>20 (49%)</u>
Total	329	179 (55%)	16 (5%)	7 (3%)	122 (37%)

Total 1984-1985 Graduates

Architecture	5	1 (20%)	1 (20%)	0 (0%)	3 (60%)
Engineering	414	206 (50%)	20 (5%)	11 (3%)	173 (41%)
Management	41	18 (44%)	4 (10%)	0 (0%)	18 (44%)
Sciences & Liberal Studies	<u>74</u>	<u>34 (46%)</u>	<u>4 (5%)</u>	<u>0 (0%)</u>	<u>36 (49%)</u>
Total	534	259 (49%)	29 (5%)	11 (2%)	230 (43%)

Source: Office of the Director, Corporate Relations & Placement

ALUMNI ASSOCIATION

The Georgia Tech Alumni Association was chartered originally in June, 1908. The Association is a not-for-profit organization whose policies, goals, and objectives are guided by a Board of Trustees consisting of thirty-six elected alumni members. The mission of the association, as stated in its charter, is to assist and support the Institute with particular emphasis and concentration of its resources and energy on serving the alumni; to produce graduates with competence, maturity, and balance; to create institutional pride within the entire family; to develop and enhance its public image; and to meet its needs by raising funds.

As a service organization, the Alumni Association accomplishes its missions by publishing the Georgia Tech Alumni Magazine and Tech Topics, the alumni newspaper; by organizing and supervising alumni clubs throughout the United States and in international locations; and by designing and presenting alumni programs, such as homecoming events, reunions, workshops, and seminars. Young alumni are encouraged to become involved in the affairs of the Association and the Institute through participation in campus programs, senior orientation, and the career advisory service for students. The Association also maintains the official alumni statistical records and files in order that communication with alumni, who presently number over 69,000, may be accomplished with accuracy and completeness. Monetary support is provided by alumni and friends, through their participation in the Association's Annual Roll Call.

ALUMNI ASSOCIATION

The Alumni Association also provides opportunities for employment for both alumni and graduating seniors through its Alumni Placement Service. Since 1936 this office has provided industry, business, and government with an excellent source of well educated, broadly experienced candidates for employment. The office is funded through contributions to the Annual Roll Call and by companies who utilize the service.

The Alumni Placement staff have been innovative in their efforts to provide a progressive placement service. In addition to publishing the Alumni Placement Bulletin, the Annual Career Conference and Career Section in Tech Topics have proven to be extremely beneficial for alumni searching for employment. The offices of the Alumni Association are located in the L.W. "Chip" Robert, Jr. Alumni/Faculty House on North Avenue. The telephone number of the Association is (404) 894-2391.

Alumni Association Officers

Geoff Gill, President

E. Rembert Dubose, Past President

Ben Dyer, President-Elect

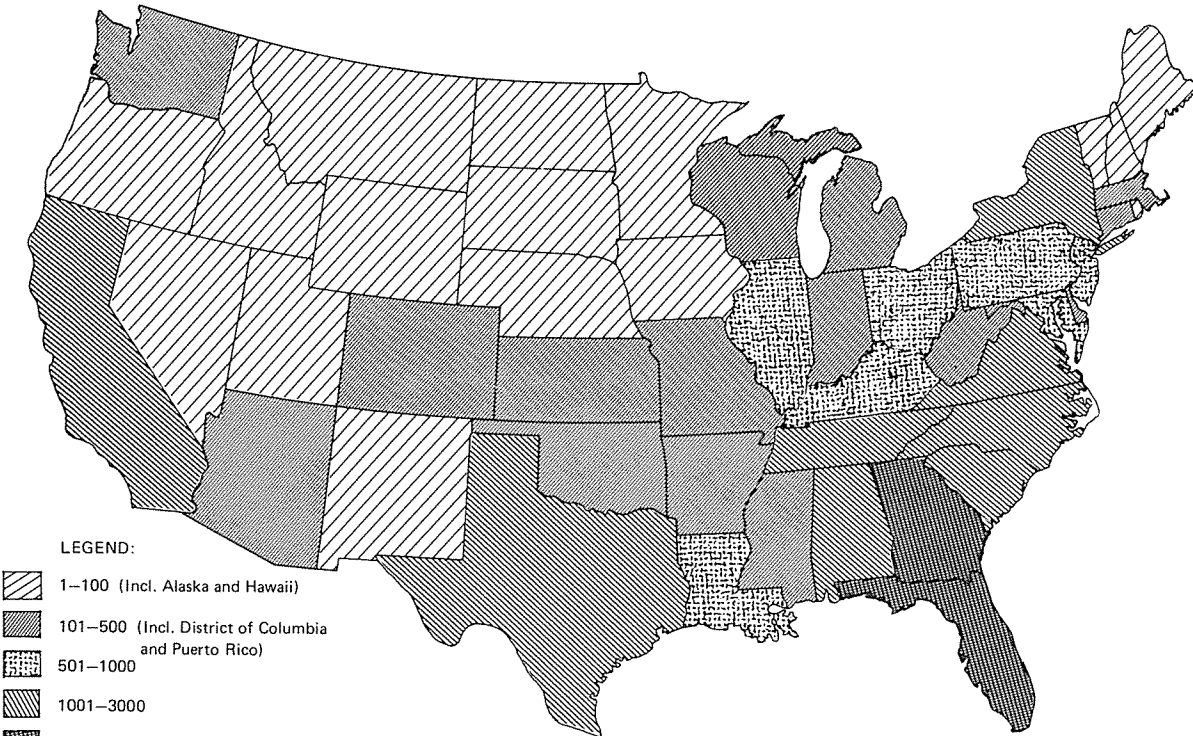
Lawton M. Nease, Vice-President

Bobby Joe Anderson, Treasurer

Source: Office of the Vice President and Executive Director, Alumni Association

GEOGRAPHICAL DISTRIBUTION OF ALUMNI

(As of July, 1985)



LEGEND:

- 1-100 (Incl. Alaska and Hawaii)
- 101-500 (Incl. District of Columbia and Puerto Rico)
- 501-1000
- 1001-3000
- over 3000

<u>STATE</u>	<u>NUMBER</u>	<u>STATE</u>	<u>NUMBER</u>
Alabama	1,795	Nebraska	51
Alaska	33	Nevada	43
Arizona	194	New Hampshire	54
Arkansas	178	New Jersey	815
California	1,899	New Mexico	93
Colorado	321	New York	1,150
Connecticut	423	North Carolina	1,897
Delaware	210	North Dakota	9
District of Columbia	135	Ohio	773
Florida	4,595	Oklahoma	184
Georgia	23,132	Oregon	59
Hawaii	48	Pennsylvania	752
Idaho	30	Puerto Rico	242
Illinois	521	Rhode Island	55
Indiana	229	South Carolina	1,630
Iowa	57	South Dakota	2
Kansas	114	Tennessee	1,937
Kentucky	374	Texas	2,242
Louisiana	759	Utah	35
Maine	33	Vermont	20
Maryland	939	Virginia	1,704
Massachusetts	453	Washington	243
Michigan	283	West Virginia	133
Minnesota	94	Wisconsin	102
Mississippi	402	Wyoming	21
Missouri	351	Foreign Countries	1,036
Montana	15		

TOTAL COUNTED

52,899

(This figure includes only those alumni whose location is known.)
 Source: Office of the Director, Alumni Association

CONTINUING EDUCATION

The Department of Continuing Education represents the education extension arm of Georgia Tech. It is responsible for all non-credit, as well as all off-campus credit based academic programs.

These programs range from conferences, seminars, and workshops to academic credit based courses. They are delivered in a variety of methods including both live and electronically. Electronic delivery now includes satellite uplink and downlink capabilities and the video-based system.

Diverse programming includes courses in:

Expert Systems	Artificial Intelligence
Management	Economic Development
Computer Science Applications	Business and Economics
Health and Safety	Applied Science
Electronics	Engineering
Energy	Industrial Applications
New Technology	Issues City Planning
Real Estate	

Program faculty come from all of the four colleges at Georgia Tech: Engineering, Architecture, Management, and Sciences and Liberal Studies. They also come from the Georgia Tech Research Institute, the Advanced Technology Development Center, and from various research centers in the Office of Interdisciplinary Programs. Additionally, Continuing Education is transmitted by communication satellite to all the Association for Media Based Continuing Engineering Education (AMCEE) non-credit offerings throughout the United States.

In addition to the Georgia Tech campus, programs were conducted at sites in 17 different states this past year. Courses and programs are being delivered by video tape, low power microwave transmission, and through direct satellite broadcast to locations throughout the United States.

CONTINUING EDUCATION

Continuing Education has an expanding area of activities including:

- Computer Institute - Offerings range from introductory to applied computer related courses available to the public and private sector on a non-credit basis.
- Language Institute - Intensive English non-credit courses for foreign students. Currently over 150 students are enrolled from 38 different countries.
- Institute for Military Education - A focal point and catalyst for military education activities

Through the public service activities of Continuing Education, Georgia Tech's resources in teaching and research are brought to the attention of local, state, regional, national, and international communities. They receive continuously updated information on new ideas, issues, technologies, and developments.

PROGRAM INFORMATION*

<u>Number of:</u>	<u>1980-81</u>	<u>1981-82</u>	<u>1982-83</u>	<u>1983-84</u>	<u>1985-86</u>
Programs	117	163	221	221	296
Participants	4,802	4,758	6,039	6,976	8,103
States Represented**	***	48	48	50	51
International Participants	***	661	580	392	652
Ga. Residents	***	2,414	3,089	3,331	3,454
Ga. Counties Represented	***	112	98	119	108
Institutional Continuing Education Units (CEU's)	24,877	23,913	25,627	19,983	24,008

*This table represents all public service activity officially reported to Continuing Education, in addition to programs sponsored by the department.

**Includes the Canal Zone, Puerto Rico, and Virgin Islands

***Figures not available.

Source: Office of the Director, Continuing Education

INDUSTRIAL EDUCATION

Industrial Education, part of the Georgia Tech Research Institute, provides human resource development activities to Georgia's industrial community. This department offers the resources and technical expertise at Tech to individual firms when solutions to problems are needed. A wide variety of seminars, workshops, and conferences has been provided for textile, food processing, automobile, and other industries.

For over sixty-six years, the department has helped industrial firms through training and educational services. Some recent in-plant training activities have included workshops on supervisory skill development. With the help of this training, one company was able to reduce its turnover rate from 66.6% to 21.9% in two years. Another project involved the development of realistic training programs using analytical methods, which resulted in streamlining and greatly reducing the cost of one firm's training program. Other workshops have encompassed the topics of safety and health, human relations, labor relations, management awareness, and instructor training.

Five-Year Summary of In-Plant Classes Administered & Conducted by Industrial Education

	<u>1980-81</u>	<u>1981-82</u>	<u>1982-83</u>	<u>1983-84</u>	<u>1984-85</u>
Number of Classes	221	197	160	118	124
Number of Students Enrolled	3,525	3,305	4,223	2,430	2,293
Number of Participating Plants	73	61	69	46	54
Total Pupil Hours	71,562	63,362	40,137	23,169	22,893
Certificates	1,503	1,782	797	1,206	946

Source: Office of the Director, Georgia Tech Research Institute

Finances



GEORGIA TECH 1885-1985

DESIGNING TOMORROW TODAY

FINANCIAL DATA - ACTUAL REVENUES

GEORGIA INSTITUTE OF TECHNOLOGY REVENUE BY SOURCE

	ACTUAL				
	FY 1980-81	FY 1981-82	FY 1982-83	FY 1983-84	FY 1984-85
STUDENT TUITION & FEES					
Resident Instruction	\$15,349,677	\$16,233,829	\$18,733,868	\$19,859,392	\$22,300,507
Eng Ext Division	935,197	1,161,380	1,287,702	1,599,586	1,895,490
Total	\$16,284,874	\$17,395,209	\$20,021,570	\$21,458,978	\$24,195,997
ENDOWMENT INCOME					
Resident Instruction	\$184,005	\$957,985	\$225,656	\$521,000	\$195,015
Ga Tech Research Inst	5,122	6,126			
Eng Ext Division					
Unexp Plant Funds	1,880,016	2,130,117	1,399,933	868,246	1,344,222
Total	\$2,067,143	\$3,094,228	\$1,625,589	\$1,389,246	\$1,539,237
GIFTS & GRANTS					
Resident Instruction	\$214,452	\$272,928	\$449,123	\$197,116	\$232,669
Eng Ext Division	75,640	90,458	74,817	68,858	76,014
Ga Tech Research Inst					
Unexp Plant Funds	27,202	1,028,000	327,876	353,469	1,920,450
Total	\$317,294	\$1,391,386	\$851,816	\$619,443	\$2,229,133
INDIRECT COST RECOVERIES					
Resident Instruction	\$4,144,608	\$4,451,801	\$4,310,044	\$4,801,102	\$5,247,619
Eng Ext Division		2,286	11	468	9,670
Ga Tech Research Inst	8,049,709	8,939,356	10,956,710	12,233,197	13,295,037
Adv Tech Dev Center	(691)	17,859	35,041	13,050	35,549
Total	\$12,193,626	\$13,411,302	\$15,301,806	\$17,047,817	\$18,587,875
OTHER SOURCES					
Resident Instruction	\$684,276	\$418,583	\$663,727	\$615,498	\$1,004,001
Eng Ext Division			(1,384)	1,247	12,030
Ga Tech Research Inst	1,349,899	1,925,332	2,351,157	2,644,290	3,042,845
Adv Tech Dev Center				17,096	1,441
Unexp Plant Funds	1,346,566	1,730,254	1,206,101	1,286,352	3,642,175
Total	\$3,380,741	\$4,074,169	\$4,219,601	\$4,564,483	\$7,702,492
STATE APPROPRIATION					
Resident Instruction	\$31,440,600	\$37,077,100	\$38,237,100	\$45,898,963	\$52,631,229
Eng Ext Division	501,380	552,045	507,829	628,382	681,898
Ga Tech Research Inst	4,239,048	4,649,904	4,713,895	5,989,241	6,720,329
Agricultural Research	60,000	396,801	420,887	487,705	569,269
Adv Tech Dev Center	185,000	358,555	409,557	581,611	811,864
Unexp Plant Funds	9,010,389	6,225,713		650,000	500,000
Total	\$45,436,417	\$49,260,118	\$44,289,268	\$54,235,902	\$61,914,589

REVENUE MISC2 10/29/85 mk

FINANCIAL DATA - ACTUAL REVENUES

GEORGIA INSTITUTE OF TECHNOLOGY REVENUE BY SOURCE

	ACTUAL				
	FY 1980-81	FY 1981-82	FY 1982-83	FY 1983-84	FY 1984-85
SPONSORED OPERATIONS					
Resident Instruction	\$13,698,110	\$14,655,904	\$17,723,001	\$21,771,051	\$22,133,359
Eng Ext Division	8,977	5,316		4,676	29,555
Ga Tech Research Inst	23,257,359	25,778,700	34,836,734	36,544,998	35,342,783
Adv Tech Dev Center		33,006	95,458	34,840	80,861
Total	\$36,964,446	\$40,472,926	\$52,655,193	\$58,355,565	\$57,586,558
SCHOLAR & FELLOW - RI	\$2,076,660	\$1,999,348	\$3,664,552	\$3,995,959	\$4,273,163
AUXILIARY ENTERPRISES	\$12,318,902	\$13,488,402	\$13,763,106	\$14,898,559	\$17,352,003
GA TECH ATHLETIC ASSN	\$3,537,000	\$4,091,100	\$5,095,414	\$6,508,000	\$7,843,968
STUDENT ACTIVITIES	\$984,351	\$1,052,917	\$1,205,327	\$1,216,970	\$1,326,200
GA TECH FOUND, INC	\$3,311,602	\$6,498,458	\$4,991,457	\$4,850,417	\$4,787,477
GA TECH RESEARCH CORP	\$2,455,000	\$2,923,811	\$3,927,133	\$4,392,000	\$4,449,361
TOTAL REVENUE					
Resident Instruction	\$67,792,388	\$76,067,478	\$84,007,071	\$97,660,081	\$108,017,562
Ga Tech Research Inst	36,899,137	41,299,418	52,858,496	57,411,726	58,400,994
Eng Ext Division	1,521,194	1,811,485	1,868,975	2,303,217	2,704,657
Agricultural Research	60,000	396,801	420,887	487,705	569,269
Adv Tech Dev Center	184,309	409,420	540,056	646,597	929,715
Auxiliary Enterprises	12,318,902	13,488,402	13,763,106	14,898,559	17,352,003
Ga Tech Athletic Assn	3,537,000	4,091,100	5,095,414	6,508,000	7,843,968
Student Activities	984,351	1,052,917	1,205,327	1,216,970	1,326,200
Ga Tech Found, Inc	3,311,602	6,498,458	4,991,457	4,850,417	4,787,477
Ga Tech Research Corp	2,455,000	2,923,811	3,927,133	4,392,000	4,449,361
Unexp Plant Funds	12,264,173	11,114,084	2,933,910	3,158,067	7,406,847
TOTAL	\$141,328,056	\$159,153,374	\$171,611,832	\$193,533,339	\$213,788,053

FINANCIAL DATA - ACTUAL EXPENDITURES

GEORGIA INSTITUTE OF TECHNOLOGY EXPENDITURES BY BUDGETARY FUNCTION

	ACTUAL				
	FY 1980-81	FY 1981-82	FY 1982-83	FY 1983-84	FY 1984-85
INSTRUCTION					
Resident Instruction					
State	\$20,468,099	\$23,316,794	\$24,112,871	\$25,997,281	\$28,027,863
Sponsored	1,311,734	1,584,388	2,645,470	3,931,592	3,590,780
Total Resident Instr	\$21,779,833	\$24,901,182	\$26,758,341	\$29,928,873	\$31,618,643
Eng Ext Division					
State	1,405,039	1,659,936	1,721,104	2,065,965	2,397,814
Sponsored					29,555
Total Eng Ext Division	\$1,405,039	\$1,659,936	\$1,721,104	\$2,065,965	\$2,427,369
Total	\$23,184,872	\$26,561,118	\$28,479,445	\$31,994,838	\$34,046,012
RESEARCH					
Resident Instruction					
State	\$7,818,063	\$8,300,152	\$7,704,205	\$8,009,649	\$10,222,370
Sponsored	11,796,493	12,503,764	14,591,813	17,023,969	16,596,825
Total Resident Instr	\$19,614,556	\$20,803,916	\$22,296,018	\$25,033,618	\$26,819,195
Ga Tech Research Inst					
State	9,857,034	11,516,480	14,465,468	15,627,304	16,957,345
Sponsored	23,257,359	25,778,700	34,836,734	36,537,222	35,333,768
Total GT Research Inst	\$33,114,393	\$37,295,180	\$49,302,202	\$52,164,526	\$52,291,113
Agricultural Research					
State	59,735	372,467	391,780	412,762	478,197
Eng Ext Division					
State		2,832			
Sponsored	8,977	5,316		4,676	
Total Eng Ext Division	\$8,977	\$8,148	\$0	\$4,676	\$0
Adv Tech Dev Center					
Sponsored		33,006			
Total	\$52,797,661	\$58,512,717	\$71,990,000	\$77,615,582	\$79,588,505
PUBLIC SERVICE					
Resident Instruction					
State					\$9,591
Sponsored					850,757
Total Resident Instr	\$0	\$0	\$0	\$0	\$860,348
Adv Tech Dev Center					
State	175,775	359,367	408,049	505,493	633,763
Sponsored			95,458	34,840	80,861
Total ATDC	\$175,775	\$359,367	\$503,507	\$540,333	\$714,624
Total	\$175,775	\$359,367	\$503,507	\$540,333	\$1,574,972

REVENUE MISC2 10/31/85 mk

FINANCIAL DATA - ACTUAL EXPENDITURES

GEORGIA INSTITUTE OF TECHNOLOGY EXPENDITURES BY BUDGETARY FUNCTION

	ACTUAL				
	FY 1980-81	FY 1981-82	FY 1982-83	FY 1983-84	FY 1984-85
ACADEMIC SUPPORT					
Resident Instruction					
State	\$5,963,792	\$7,312,348	\$8,713,150	\$9,064,483	\$10,586,893
Sponsored				111,412	221,716
Total	\$5,963,792	\$7,312,348	\$8,713,150	\$9,175,895	\$10,808,609
STUDENT SERVICES					
Resident Instruction					
State	\$1,680,071	\$2,008,877	\$1,886,001	\$1,966,271	\$2,115,322
Sponsored	4,954	3,174	22,144	31,374	15,456
Total	\$1,685,005	\$2,012,051	\$1,908,145	\$1,997,645	\$2,130,778
INSTITUTIONAL SUPPORT					
Resident Instruction					
State	\$8,043,490	\$9,986,349	\$10,901,814	\$17,090,889	\$18,396,763
Sponsored	545,919	521,000	431,400	663,945	850,927
Total Resident Instr	\$8,589,409	\$10,507,349	\$11,333,214	\$17,754,834	\$19,247,690
Eng Ext Division					
State	67,246	78,795	96,116	174,037	200,057
Ga Tech Research Inst					
State	2,760,441	2,900,489	2,216,301	3,815,369	4,105,337
Agricultural Research					
State		24,223	29,217	74,957	90,840
Adv Tech Dev Center					
State	8,006	17,047	24,754	57,980	78,045
Total	\$11,425,102	\$13,527,903	\$13,699,602	\$21,877,177	\$23,721,969
OPERATION OF PLANT					
Resident Instruction					
State	\$8,109,111	\$8,569,067	\$9,437,747	\$9,717,273	\$12,311,975
Sponsored	39,030	45,578	32,174	8,759	6,898
Total Resident Instr	\$8,148,141	\$8,612,645	\$9,469,921	\$9,726,032	\$12,318,873
Eng Ext Division					
State	39,410	61,151	48,538	54,938	77,768
Ga Tech Research Inst					
State	1,039,105	1,131,066	1,366,974	1,473,448	2,046,596
Sponsored				7,776	9,015
Total GT Research Inst	\$1,039,105	\$1,131,066	\$1,366,974	\$1,481,224	\$2,055,611
Agricultural Research					232
State					
Adv Tech Dev Center					
State			11,633	46,986	141,252
Total	\$9,226,656	\$9,804,862	\$10,897,066	\$11,309,180	\$14,593,736

REVENUE MISC2 10/31/85 ak

FINANCIAL DATA - ACTUAL EXPENDITURES

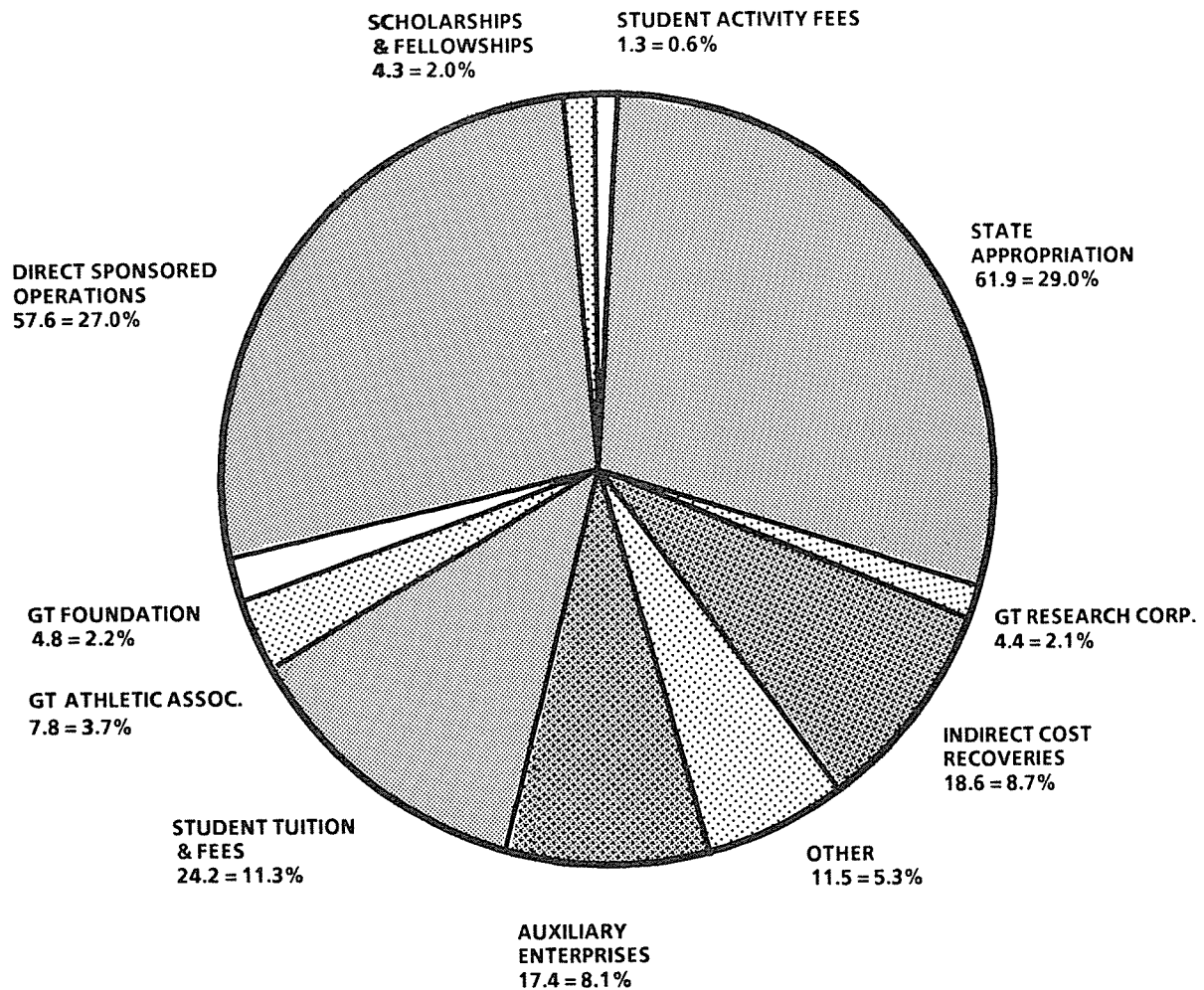
GEORGIA INSTITUTE OF TECHNOLOGY EXPENDITURES BY BUDGETARY FUNCTION

	ACTUAL				
	FY 1980-81	FY 1981-82	FY 1982-83	FY 1983-84	FY 1984-85
SCHOLAR & FELLOW - RI	\$2,076,660	\$1,999,348	\$3,664,552	\$3,995,959	\$4,273,163
AUXILIARY ENTERPRISES	\$10,646,546	\$11,573,675	\$13,102,308	\$13,322,360	\$15,160,309
GA TECH ATHLETIC ASSN	\$3,537,000	\$4,091,100	\$5,095,414	\$6,508,000	\$7,843,968
STUDENT ACTIVITIES	\$1,018,244	\$1,077,377	\$1,124,592	\$1,245,652	\$1,286,869
GA TECH FOUND, INC	\$3,311,602	\$6,498,458	\$4,991,457	\$4,850,417	\$4,787,477
GA TECH RESEARCH CORP	\$2,455,000	\$2,923,811	\$3,927,133	\$4,392,000	\$4,449,361
UNEXP PLANT FUNDS	\$12,264,173	\$11,114,084	\$2,935,153	\$3,158,067	\$7,407,171
GRAND TOTAL					
Resident Instruction					
State	\$52,082,626	\$59,493,587	\$62,755,788	\$71,845,846	\$81,670,777
Sponsored	13,698,110	14,655,904	17,723,001	21,771,051	22,133,359
Scholar & Fellow	2,076,660	1,999,348	3,664,552	3,995,959	4,273,163
Total Resident Instr	\$67,857,396	\$76,148,839	\$84,143,341	\$97,612,856	\$108,077,299
Eng Ext Division	1,520,672	1,808,030	1,865,758	2,299,616	2,705,194
Ga Tech Research Inst	36,913,939	41,326,735	52,885,477	57,461,119	58,452,061
Agricultural Research	59,735	396,690	420,997	487,719	569,269
Adv Tech Dev Center	183,781	409,420	539,894	645,299	933,921
Auxiliary Enterprises	10,646,546	11,573,675	13,102,308	13,322,360	15,160,309
Ga Tech Athletic Assn	3,537,000	4,091,100	5,095,414	6,508,000	7,843,968
Student Activities	1,018,244	1,077,377	1,124,592	1,245,652	1,286,869
Ga Tech Found, Inc	3,311,602	6,498,458	4,991,457	4,850,417	4,787,477
Ga Tech Research Corp	2,455,000	2,923,811	3,927,133	4,392,000	4,449,361
Unexp Plant Fund	12,264,173	11,114,084	2,935,153	3,158,067	7,407,171
TOTAL	\$139,768,088	\$157,368,219	\$171,031,524	\$191,983,105	\$211,672,899

* Institutional Support in FY 1983-84 Actual includes Teachers' Retirement expense which was previously reported by the Board of Regents.

FINANCIAL DATA BY PERCENTAGE

CONSOLIDATED REVENUE BY SOURCE FISCAL YEAR 1984 - 85: \$213.8 MILLION*

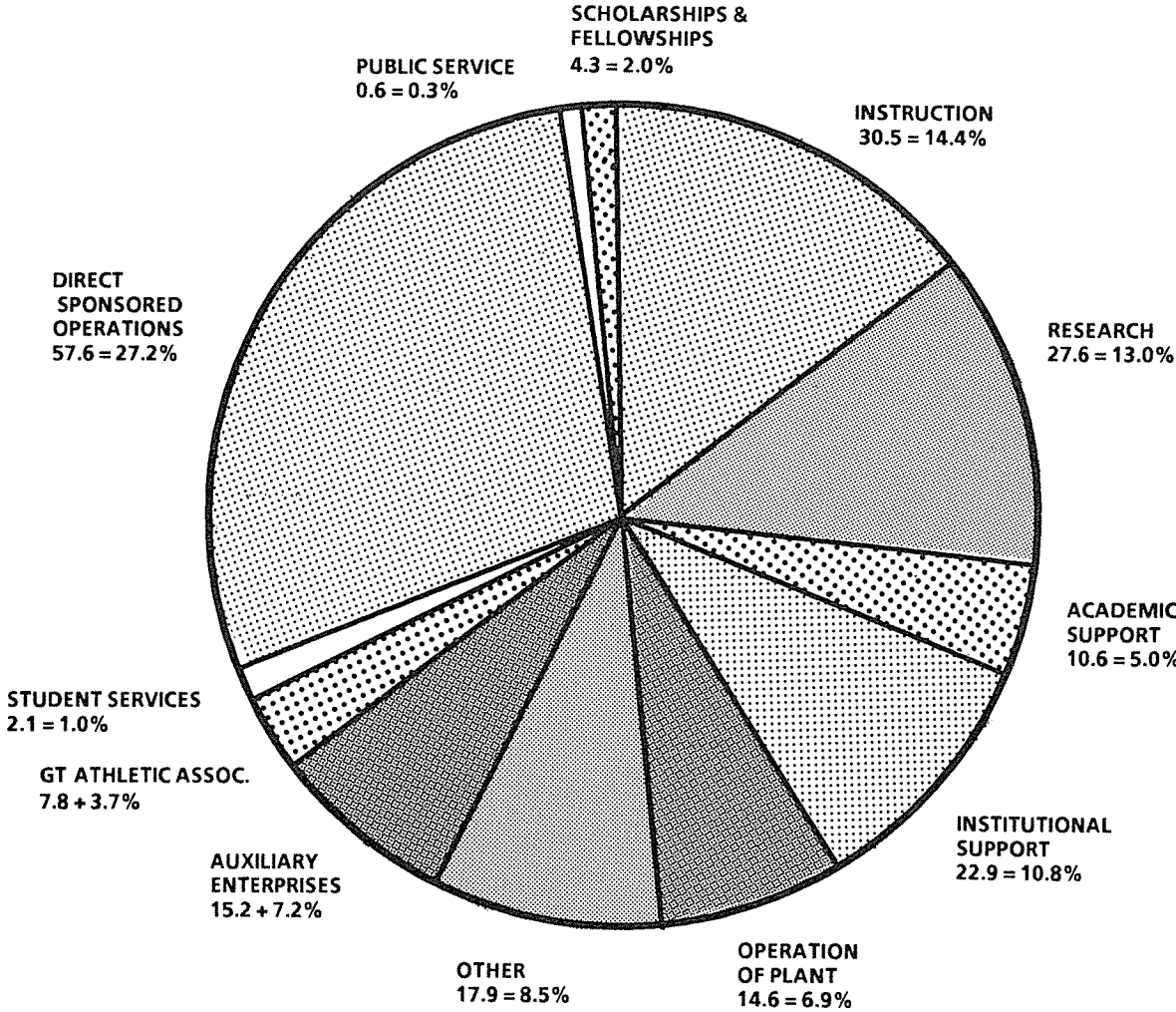


*Note: Excess of Total Revenue over Total Expenditures is attributed to the Reserve for Renewal and Replacement in Auxiliary Enterprises as required by Board of Regents policy.

Source: Office of the Vice President, Business and Finance

FINANCIAL DATA BY PERCENTAGES

CONSOLIDATED EXPENDITURES BY BUDGETARY FUNCTION FISCAL YEAR 1984 - 85: \$211.7 MILLION*

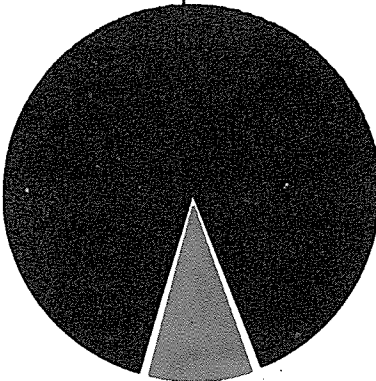


*Note: Excess of Total Revenue over Total Expenditures is attributed to the Reserve for Renewal and Replacement in Auxiliary Enterprises as required by Board of Regents policy.

Source: Office of the Vice President, Business and Finance

FINANCIAL - REVENUES AND EXPENDITURES 1896

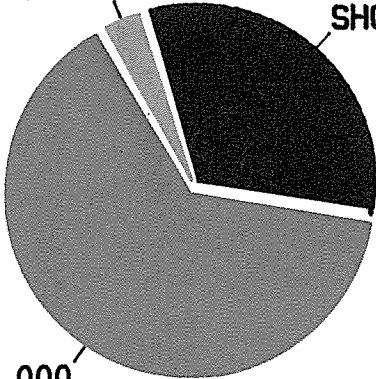
STATE FUNDING--\$22,500



ATLANTA FUNDING--\$2500

REVENUE
BREAKDOWN

CONTINGENT EXPENSES--\$1000



SHOP EXPENSES--\$8000

SALARIES--\$16,000

EXPENSE
BREAKDOWN

Research



GEORGIA TECH 1885-1985

DESIGNING TOMORROW TODAY

RESEARCH AT GEORGIA TECH

Georgia Tech is a major center for advanced technology in Georgia and the Southeast. With a full-time general faculty of more than 1,400, mostly scientists and engineers, it conducts research of national significance, provides 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 a group of schools, centers, and research laboratories, with each performing research in a particular field of interest.

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 contract agency. It also handles patent and other financial and administrative research matters.

Research programs range from alternate energy research to the development of electronic defense systems; from economic development assistance to business and industry to the application of complex computer technology; from analyses of systems for monitoring stratospheric pollution to the design and implementation of totally new radars; from the evolution of processing techniques for earth resources satellites to management of the nation's second largest solar energy test facilities. Contracts vary in size from an \$21.3 million contract with the federal government to a \$500 contract with a rural industry. There are programs with local, regional and state governments, with many companies, with other R & D organizations, and with developing nations.

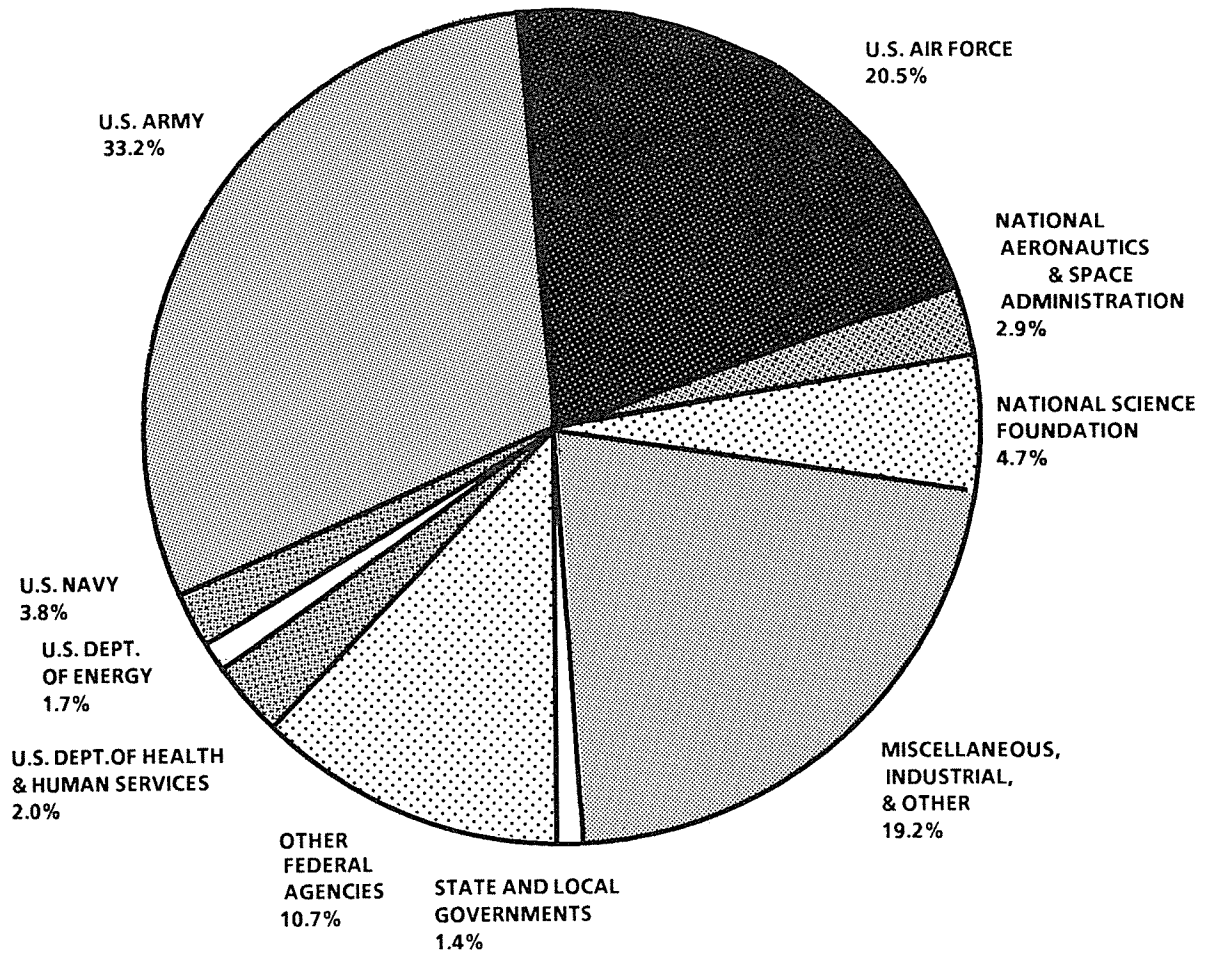
Much of the total research activity is within the broad field of electronics, including electronic defense, electronic systems, electronic techniques and components, antennas, microelectronics, electromagnetics, and optical electronics. Energy research on solar and other alternate energy forms and work on energy conservation and applications are also important areas, as are the following: domestic and international economic development; computer technology and applications; mechanics; and the fields of biological, physical, chemical, material, earth, atmospheric, and social science.

Most of the research is performed on the Georgia Tech campus, but there are also a variety of off-campus facilities. About 62% of the research and extension activities are managed by the Georgia Tech Research Institute and 38% are managed by academic schools and colleges.

Source: Office of the Vice President for Research

RESEARCH AT GEORGIA TECH

TOTAL SPONSORED RESEARCH As of June 30, 1985



Source: Office of the Vice President for Research

RESEARCH AT GEORGIA TECH

RESEARCH GRANTS AND CONTRACTS*

<u>AWARDING AGENCY</u>	<u>FY 1985</u>	<u>(% of Total)</u>
National Science Foundation	\$3,567,977	(4.7)
National Aeronautics & Space Administration	2,232,147	(2.9)
U. S. Air Force	15,509,997	(20.5)
U. S. Army	25,203,761	(33.2)
U. S. Navy	2,893,970	(3.8)
U. S. Department of Energy	1,281,656	(1.7)
U. S. Department of Health and Human Services	1,495,326	(2.0)
Other Federal Agencies	<u>8,082,325</u>	(10.7)
Total Federal Government	\$60,267,159	
State and Local Governments	1,021,759	(1.3)
Miscellaneous, Industrial & Other	<u>14,537,507</u>	(19.2)
GRAND TOTAL	\$75,826,425	

*This summary does not include other extramural support such as fellowships, traineeships, training grants and instructional equipment grants.

RESEARCH SUMMARY

July 1984-June 1985

UNIT	PROPOSALS		AWARDS	
	<u>Number</u>	<u>Amount</u>	<u>Number</u>	<u>Amount</u>
Engineering	384	\$78,040,871	184	\$12,781,768
Architecture	45	3,288,868	19	543,518
College of Sciences & Liberal Studies	226	38,994,654	106	6,257,525
Management	8	582,269	5	355,090
Research Centers	124	140,675,582	102	1,932,594
Georgia Tech Research Institute	<u>952</u>	<u>251,862,811</u>	<u>567</u>	<u>53,955,930</u>
TOTAL	1,739	\$513,445,055	983	\$75,826,425

FY 84-85 Awards:	\$75,826,425
FY 83-84 Awards:	\$66,432,706
FY 82-83 Awards:	\$82,384,454
FY 81-82 Awards:	\$61,727,967
FY 80-81 Awards:	\$54,016,873

Source: Office of the Vice President for Research

CONTRACT ADMINISTRATION

The Vice President for Research has the executive responsibility for all research programs conducted at the Georgia Institute of Technology. He works with the deans, school and center directors, and the Director of the Georgia Tech Research Institute in establishing research policies and procedures. Management support for the research programs at Georgia Tech is provided by the Office of the Vice President for Research and the Georgia Tech Research Corporation (GTRC), in partnership with the Office of Contract Administration (OCA) and its five divisions.

The Office of the Director of OCA is responsible for annual overhead negotiations with the federal government. Policy and procedures are set in the Director's office. This office assists the faculty in identifying potential funding sources by means of a weekly report entitled "Research Opportunities" and a bi-monthly newsletter entitled "Research News". The Office of the Director of OCA serves as the central coordinating point for the entire campus for ordering and distributing Requests for Proposals (RFPs) and also provides a telex and telecopier service for official campus business.

The Program Initiation Division (PID) handles all proposals and grant applications from the Georgia Tech Research Institute and the Georgia Institute of Technology for all sponsored activity. Contracting officers in PID review proposals and cost estimates for compliance with the business policies of both the Institute and awarding agencies. PID negotiates all resulting grants and contracts. Contracting sponsors include almost every department of the U.S. government, many state and local governments, corporations, universities and colleges, and foreign government agencies. Each PID contracting officer works with specific sponsoring agencies.

The Program Administration Division (PAD) monitors active grants and contracts and is the liaison between project sponsors and the Georgia Tech research management staff. This office is organized in the same way as PID, so that each contracting officer is assigned specific sponsoring agencies. PAD carefully reviews the terms and obligations of grants and contracts once they have been awarded and prepares and distributes necessary documents. All modifications to an existing program, such as budgetary changes, an extension of time, and/or a change in scope of work or terms and conditions, are processed by PAD.

PAD also reports to the Vice President for Research all contractually required items ("deliverables") that are due or delinquent. Upon completion of a grant or contract, PAD facilitates close-out of the program, i.e., certification of satisfactory performance, preparation of

CONTRACT ADMINISTRATION

research property records, accounting for patents and classified documents, final billing, and submission of all "deliverables" and closing certificates to the sponsor.

The Legal and Subcontracting Division (L&SD) provides assistance in subcontract activities related to contracts and grants. Patent and license review, copyright and patent application processing, and negotiation of royalty fees are services provided by this division. The International Traffic in Arms Regulations (ITAR) and Export Administration Regulations (EAR) are checked for compliance. L&SD is available to handle any legal problem related to research activities.

The Support Services Division located in the Graduate Library Basement serves as the distribution point for all proposals and progress reports, the filing center for all progress reports during the life of a project, and the office of record for the dispatch of both research proposals and progress/final reports on grants and contracts. This division works closely with the printing and photographic department to assure timely reproduction, with the Program Initiation Division to coordinate proposal submission, with the Program Administration Division for report identification and contractual compliance, with the Archives section of the Georgia Tech Library for disposition of files on completed projects, and with the various postal carriers to assure expeditious and economical delivery of research documents.

The Printing and Photographic Center (PPC) has modern printing equipment and a layout section to support the press department with design and line drawing capabilities. A copy camera, capable of enlargements and reductions, is available to produce negatives from which plates can be made for reproduction. The finishing department has all the standard equipment and materials for normal binding. The photographic department is equipped with a wide variety of cameras, movie and still, high-speed and slow-motion, for either in-house or research laboratory use. All developing and printing capabilities, except color processing, are available. PPC is well-equipped and staffed to meet the instruction, research, and administrative requirements of a major academic institution.

Source: Office of the Director, Contract Administration

RESEARCH CENTERS

The Office of Interdisciplinary Programs, established in October 1973, coordinates interdisciplinary research centers at Georgia Tech. The office currently provides administrative support and coordination to the units listed below. While the centers offer no designated degrees, center staff teach courses in other departments and schools of the Institute, assist in the development of interdisciplinary curricula, conduct various research projects, engage in public service programs, and coordinate appropriate interdisciplinary activities.

The Bioengineering Center emphasizes the application of knowledge, techniques and approaches of the physical sciences, engineering, social sciences, and management to the problems of the biological sciences. In addition to developing interdisciplinary study and research opportunities for qualified students at Georgia Tech, the center conducts cooperative programs in bioengineering education and research with other universities and foundations. Curriculum planning and arrangements are coordinated by the Office of the Dean of Engineering.

The Computational Mechanics Center is dedicated to the advancement of the science of computational analyses. Major research thrusts include non-linear and dynamic fracture mechanics, failure analysis, advanced stress and durability studies, heat section jet engine technology, fatigue analysis, and advanced computational techniques for manufacturing processes.

The Environmental Resources Center coordinates applications of Tech's expertise in science and technology to address problems of managing environmental resources. It organizes and administers water resources research projects throughout Georgia and disseminates their results.

The objective of the Fracture and Fatigue Research Lab is to encourage interdisciplinary research and educational opportunities at Georgia Tech in the field of fracture and fatigue of materials. The research programs encompass the behavior of a wide range of materials, including metals, ceramics, polymers, and composites.

The Georgia Mining and Mineral Resources Institute was organized for the purpose of providing research and education for the mineral industries of the state and southeast. The major emphasis in research is in non-metallics and, to a lesser degree, coal.

The Georgia Productivity Center assists Georgia companies in improving productivity through the application of technology. Direct short-term help is provided state-wide through Tech's twelve extension offices. Longer term research needs are approached through special projects for special industrial groups. Emphasis is placed on production technology, industrial economics, business, and human resource management.

RESEARCH CENTERS

The Georgia Tech Microelectronics Research Center provides a mechanism for the formal coordination of campus programs of a microelectronics nature conducted within existing campus organizational units. The center also provides a focus for the development of specialized facilities used in support of interdisciplinary research activities. Typical research programs include thin film deposition and characterization, anisotropic etching, high field-hot electron effects on device modeling, laser annealing, and very large scale integration (VLSI) chip design.

The Health Systems Research Center provides an interdisciplinary and interinstitutional program of health systems research, community outreach, and continuing education. The center develops, applies, and disseminates new knowledge and techniques in all aspects of improved operational and managerial systems for the delivery of health care to the public. The center emphasizes systematic planning, engineering design, and scientific management of health care facilities, work methods, and human resources.

The Nuclear Research Center provides access for multiple-discipline users of a five megawatt research reactor. On-going work includes trace element analysis, production of radioisotopes for medical and industrial use, medical application research, and personnel training programs for industry. An additional program supports reactor use by colleges and universities throughout the southeastern United States.

The Radiological Protection Center coordinates research and training in health physics. Its Environmental Radiation Laboratory provides analytical support for faculty research programs complementary to and supportive of the School of Nuclear Engineering's undergraduate and graduate degree programs in health physics.

The Rehabilitation Technology Center facilitates research on devices and systems which help handicapped or disabled persons by removing functional barriers in the workplace, home, and community environments. Collaborative research relationships have been established with the Atlanta Veterans Administration Medical Center; the Division of Vocational Rehabilitation (Georgia Department of Human Resources); the Roosevelt Warm Springs Institute; and Emory University.

The Technology Policy and Assessment Center brings together faculty and student research teams to conduct research on major technology policy issues which face our society. Typical areas of investigation involve analyses of social impact, organizational behavior, institutional responsiveness and cost-risk-benefit features associated with alternative policies, and strategies for the management of scientific and technological development.

RESEARCH CENTERS

The Materials Handling Research Center is a joint university/industry activity that produces research results which will ultimately improve the handling, storage and control of material. The Center's research programs include design, development and operational studies that have applications in manufacturing, warehousing, and logistics. Research staff members of the center work closely with member companies to keep the program oriented toward significant and relevant research opportunities.

The Communication Research Center addresses literacy, language use and development, and the process of composition. Research and services are performed by a network of scholars whose results have been applied widely to teaching and learning, both within and beyond the academic setting.

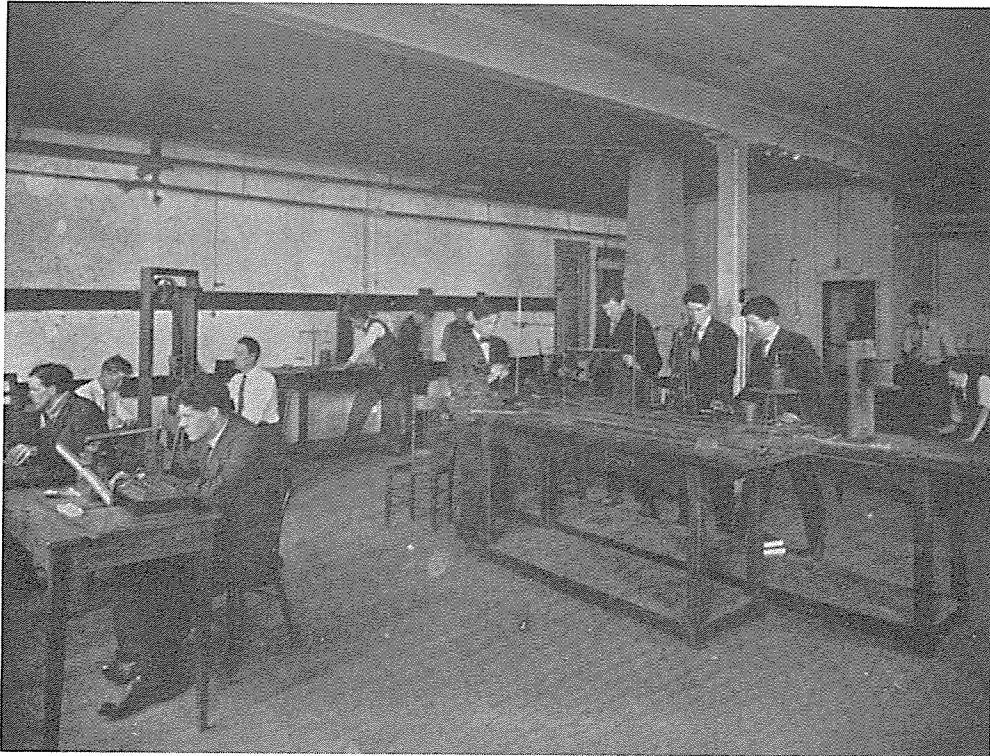
The Center for Excellence in Rotary Wing Aircraft Technology provides a national focal point to stimulate more continuous research in helicopter technology and more comprehensive graduate training for engineers in the field. Georgia Tech was selected by the U.S. Army as one of their three centers for excellence in rotary wing aircraft technology.

The Center for Architectural Conservation focuses on research in the technology of existing buildings to promote, enhance and assist in the conservation and re-use of building environments.

The Research Center for Biotechnology provides a focus for the development of research in molecular biology, applied biology, biochemistry, biophysics, and biochemical engineering. A major emphasis is on the utilization of new research for the development of new industrial processes and products for health care items, specialty chemicals, fuels, and biomaterials.

The Fusion Research Center integrates and focuses faculty research interests in the various areas of physics and technology that are related to fusion research and development. Two areas have been identified for initial emphasis: plasma-wall interaction and impurity control; and plasma diagnostics.

GEORGIA TECH RESEARCH INSTITUTE



The physical laboratories in 1921, considered among the most modern

The Georgia Tech Research Institute (GTRI) is chartered by the Georgia legislature as a non-profit organization. Its missions include: service to the community, state and nation; conducting scientific, engineering, and industrial research; encouraging the development of Georgia's natural resources; aiding industrial and economic development; and participating in national programs of science, technology, and preparedness. In performing these missions, GTRI simultaneously is making the maximum possible contribution to Georgia Tech's overall research, educational, and service goals.

The Director of GTRI reports administratively to the Georgia Tech Vice President for Research, who is the focal point for all research at the Institute. There is considerable interaction in research and instruction between the staff of GTRI and the academic schools and departments. There is also increasing involvement in the presentation of seminars and other forms of specialized training for off-campus groups.

GEORGIA TECH RESEARCH INSTITUTE

GTRI is headquartered on the Georgia Tech campus where most of its staff is located. GTRI activities also are located at an off-campus leased facility in nearby Cobb County, as well as at twelve field offices located throughout the state in Albany, Augusta, Brunswick, Carrollton, Columbus, Douglas, Dublin, Gainesville, Macon, Madison, Rome, and Savannah. In addition, other groups are performing research at the sponsors' locations: at Eglin Air Force Base, Florida; at the Army Missile command in Huntsville, Alabama; at the Warner Robins Air Logistics Center, in Georgia; and at Ft. Monmouth, N.J. Overseas resident locations include Cairo, Egypt; Khartoum, Sudan; and Guatemala City, Guatemala. GTRI is organized into seven major research laboratories as described briefly below:

The **ECONOMIC DEVELOPMENT LABORATORY (EDL)** conducts programs in three major areas: Environmental Health and Safety; Business Development; and Industrial Extension. EDL operates the Industrial Extension Service with twelve offices throughout the state of Georgia. Other programs are directed toward minority business development, the problems of inventors and small businesses, and firms hurt by import competition. Environmental programs are Hazardous Waste Management, Safety Engineering, and Industrial Hygiene. An area of national interest has been the forecasting of energy demand, using the commercial sector model to look at issues such as market penetration of coal technologies and electric heat pumps.

The **ELECTROMAGNETICS LABORATORY (EML)** is composed of three major research units: Electro-Optics; Physical Sciences; and Millimeter Wave Techniques, plus the Huntsville office. A broad spectrum of research programs covers both governmental and industrial activities. Some of these are: digital image processing, millimeter-wave technology, molecular beam epitaxy (MBE), radiometric systems, remote sensing applications, semi-conductor materials, IMPATT diode chips, chemical kinetics and photochemistry, artificial intelligence, and optoelectronics. One of the more important projects is the study of chemical kinetic processes which affect the depletion of ozone in the upper atmosphere.

GEORGIA TECH RESEARCH INSTITUTE

The **ELECTRONICS AND COMPUTER SYSTEMS LABORATORY (ECSL)** is composed of six major research units: Biomedical Research; Communications Systems; Computer Technology and Applications; Electromagnetic Compatibility; Electromagnetic Effectiveness; and Command and Control. A sample of the research activities performed in ECSL includes research of antenna systems, electromagnetic scattering, design and analysis of robust communication systems, analysis and control of electromagnetic interference effects, information management and decision-support systems, process controllers, and real-time data acquisition and display systems.

The **ENERGY AND MATERIAL SCIENCES LABORATORY (EMSL)** is composed of three major units: Solar Energy; Material Sciences; and Bioengineering. Much of the research is directed toward advanced engineering and the physical sciences as applied to energy production, development of new materials, and the resolution of environmental problems. Some projects include high-temperature solar energy research, technology related to the conversion and utilization of biomass, the development and evaluation of high-temperature materials, and protective coating technology. The most significant of these programs are entrained pyrolysis and gasification of biomass, the development of high temperature ceramics materials, and operation of the Advanced Components Test Facility (Solar Test Site).

The **RADAR AND INSTRUMENTATION LABORATORY (RAIL)** is composed of four major units: Modeling and Simulation; Analysis; Technology Development; and a Special Projects Office. Areas of national recognition include millimeter-wave technology, characterization of targets and clutter, polarization processing, instrumentation radars and reflectivity measurements, stationary target detection, target classification, radar transmitters and modulators. New research thrusts include electronic counter countermeasures, advanced radar transmitter/modulation technology, tracking radar systems, fiber optics technology/applications, counter-mine technology, and guidance/seeker technology.

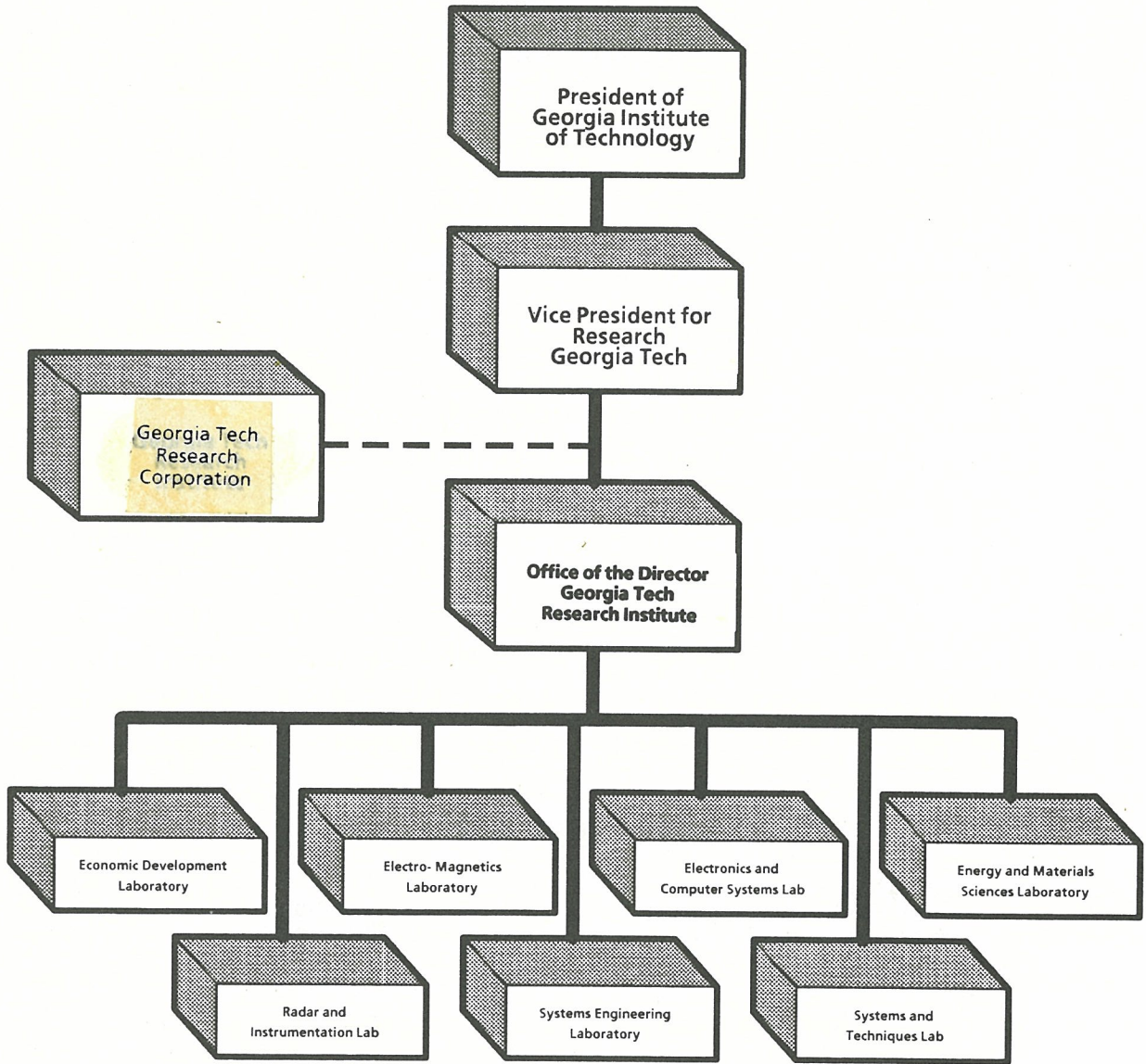
GEORGIA TECH RESEARCH INSTITUTE

The **SYSTEMS AND TECHNIQUES LABORATORY (S&TL)** is composed of two program offices and four major units: Defense Electronics; Microwave Systems; Systems Development; and Design Services. The majority of the research in S&TL is related to threat radar tracking systems. This work focuses on the analysis, design, fabrication, and testing of new radar systems and major components. Other major technical areas are microwave antennas, particularly track-while-scan types; millimeter-wave and phased array antennas; and multiple-target instrumentation systems. A few of the major accomplishments include the development of major radar systems, both fixed and mobile, extensive upgrading of three mobile gunfire control radars, and the development of a large antenna system for an industrial sponsor.

The **SYSTEMS ENGINEERING LABORATORY (SEL)** is composed of four major units: Concepts Analysis; Countermeasures Development; Defense Systems; and Electronic Support Measures. In addition, SEL has an Advanced Programs Office and a Techniques Analysis Program Office on campus, plus field offices located at Eglin Air Force Base in Florida, and Warner Robins Air Logistics Center in Georgia. They are engaged in large-scale systems analysis and in-depth modeling of system concepts. Areas of expertise are electronic countermeasures (ECM), electronic warfare (EW), electronic support measures (ESM), and electronic counter countermeasures (ECCM). Much research is underway in EW simulator development, EW software development, and advanced digital signal processing. Another area of research is the experimental evaluation and flight testing of new techniques for use with operational radar systems. Studies are also performed in the collection, processing, and analysis of electronic data.

Source: Office of the Director, Georgia Tech Research Institute

GEORGIA TECH RESEARCH INSTITUTE



GEORGIA TECH RESEARCH INSTITUTE

STAFF

June 30, 1985

Research Regular (full-time)			
Professional			568
By Highest Degree			
Doctorates*	98	(17.3%)	
Masters	269	(47.3%)	
Bachelors	192	(33.8%)	
Other	5	(.9%)	
No Degree	4	(.7%)	
Support			276
Total Research Regular (full-time)			844
Supplementary (part-time)			
Professional			29
Support			125
Graduate Research Assistants			56
Co-op Students			111
Student Assistants			72
Total Supplementary (part-time)			393
TOTAL STAFF			1,237

*Includes 1 J.D.'s and 1 M.D.

FY-84/85 FINANCIAL DATA

Activity Level/Funding Sources	
Research Contracts and Grants	\$49.4 million
Interdepartmental Services	3.3 million
State Appropriation	7.3 million
TOTAL	\$60.0 million

RESEARCH FACILITIES

Campus Research Space	369,078 sq. ft.
Off-Campus Leased Research Space	154,706 sq. ft.
TOTAL	523,784 sq. ft.

Source: Office of the Director, Georgia Tech Research Institute

ADVANCED TECHNOLOGY DEVELOPMENT CENTER

The Advanced Technology Development Center (ATDC) was created in July of 1980 jointly by George Busbee, then governor, and the General Assembly. Located on the Georgia Tech campus, the Center serves as a catalyst for attracting and fostering high-technology industrial growth in Georgia. Such high-technology companies are capital intensive in production, employ a high percentage of technicians, engineers, and scientists, and are science-based, dependent on research and development for their continued success.

ATDC assists high-technology businesses at all stages of development. Specific programs include recruiting new high-technology firms, assisting high-technology entrepreneurs, helping existing companies develop new technology-based products, assisting in the formation of venture capital resources, and conducting educational programs in high-technology business development. The Center offers the following services to companies considering expansion or relocation to Georgia: technical information about and access to state resources; low-cost incubator space on campus; access to Tech's facilities, engineers and scientists; and other support and training needed to facilitate their operation.

As part of its assistance to high-technology companies, the ATDC can help identify product markets; locate venture capital; provide management, finance and marketing assistance; and evaluate new products and ideas. ATDC-sponsored short courses and conferences, utilizing the wide variety of management and technical expertise at Georgia Tech, can enable members of the business and financial communities to update their technological understanding or improve their management skills.

The ATDC is housed in a new two-building complex located on the northern edge of the campus facing Tenth Street. The buildings offer a total of 83,000 square feet of office, laboratory, and light manufacturing space. Shared conference and administrative support facilities stretch the resources of new firms residing in the ATDC New Business Incubator. In addition to providing reasonably priced temporary space for developing businesses, the buildings allow convenient access to Tech's library, computer center, sophisticated test equipment, and other research facilities. Currently, ATDC has fifty-one tenant firms in its incubator program; sixteen occupy space in its Tech facilities.

Source: Office of the Director, Advanced Technology Development Center

GEORGIA TECH - 1885 - 1985 DESIGNING TOMORROW TODAY



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For additional information about this publication contact the Office of the Associate Vice President for Academic Affairs 404-894-3311.

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