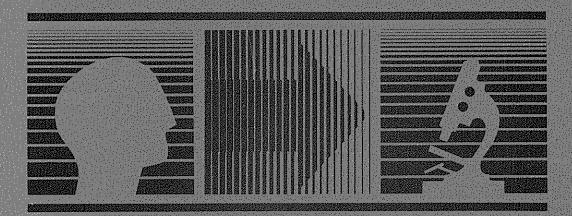
# FACT BOOK



Georgia Tech Atlanta

# Georgia Tech Fact Book

1980-81 Georgia Tech Fact Book Edited by Sara L. Dryden Office of Institutional Research Georgia Institute of Technology Atlanta, Georgia 30332 (404) 894-3311

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### **History**

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With two buildings on a four-acre campus, the Georgia School of Technology officially opened its classroom doors on October 7, 1888, three years after it was chartered by the state of Georgia in 1885. Eighty-five students enrolled that first October, 129 overall the first year, to pursue degrees in the only major offered, mechanical engineering. Even then Tech courses were difficult to master as only 28 members of the original October class earned degrees.

In the next few years degrees were offered in electrical engineering, civil engineering and textiles. Gradually the curriculum broadened and now Tech students can choose from 30 major fields in engineering, science, business, and architecture at the bachelor's, master's and doctorate degree levels.

The Georgia School of Technology officially became the Georgia Institute of Technology on July 1, 1948. At that same time Tech's first two colleges were formed, the College of Engineering and the General College. Since then the General College has changed its name to the College of Sciences and Liberal Studies and the Colleges of Management and Architecture have been added. The College of Architecture is the most recent, having been elevated from a school in 1975. The College of Engineering is by far the largest of the four.

The general growth and diversity of Tech is reflected in its ever-expanding student population. For the first time, in Fall 1978, more than 11,000 students were enrolled. Yet it wasn't until 1952 that a coed first appeared on the main campus of Georgia Tech to pursue an engineering degree. Women at Tech have come a long way, comprising almost 20 percent of the 1978-79 student body. During that year women also served as president of both the undergraduate and graduate student bodies.

Black Americans first arrived on campus in 1961 and now more than 600 are enrolled. Of publicly-supported institutions Tech ranks first nationally per capita in the number of national achievement scholars in attendance, which are composed solely of black students.

From the original two buildings and four acres Tech has grown to 128 buildings on 301 acres in the heart of downtown Atlanta.

Source: Director of Public Information

### Statement of Purpose

The purpose of the Georgia Institute of Technology in the broadest sense, is to contribute to the fulfillment of the educational needs of the State of Georgia. In the pursuit of this objective, the Georgia Institute of Technology is dedicated to the advancement of scientific and technical knowledge and achievement in a socially and culturally relevant framework.

It shall strive for excellence in teaching and scholarship, and for innovation in research and service.

It shall strive to provide an educational environment that will encourage and assist students to develop fully their capabilities both as professionals and as human beings. It shall provide an environment for the physical development and well-being of its students.

It shall press vigorously for the discovery and generation of new knowledge, to investigate ways of applying such knowledge innovatively for the benefit of society and mankind, and to foster the development of creative skills required for the design and development of new tools, objects and ideas.

It shall provide undergraduate, graduate, and continuing education programs and carry out basic and applied research in its areas of special competence.

It shall provide service to the society of which it is a part through its educational and research programs and, to the extent possible without impairment of these programs, through applications of its research, development, design, and management capabilities.

Source: President (approved by the Board of Regents April 10, 1973)

### Institutional and Professional Accreditation

### Institutional Accreditation

Southern Association of Colleges and Schools

### Professional Accreditation

The Accreditation Board for Engineering and Technology has awarded basic accreditation to the four-year engineering programs leading to the bachelor's degree in the following fields:

aerospace engineering engineering science and mechanics
ceramic engineering industrial engineering
chemical engineering mechanical engineering
civil engineering nuclear engineering

electrical engineering textile engineering

Advanced level accreditation has also been given to the programs leading to the master's degree in the following fields:

aerospace engineering mechanical engineering

ceramic engineering metallurgy

civil engineering nuclear engineering
electrical engineering sanitary engineering
industrial engineering textile engineering

The program leading to the degree Master of Architecture is accredited by the National Architecture Accrediting Board.

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

The College of Management is accredited by the American Assembly of Collegiate Schools of Business.

Although no accrediting agency has yet been established in the field of health systems the School of Health Systems has been admitted to associate institutional membership in the Association of University Programs in Health Administration for future accreditation review.

Source: Vice President for Academic Affairs

### Administration

Joseph M. Pettit Walter L. Bloom John H. Gibson Homer C. Rice

James R. Stevenson E. Jo Baker Walter L. Bloom Wil Grant William J. Lnenicka

Thomas E. Stelson Albert P. Sheppard

Richard Fuller

P. Warren Heemann John P. Culver John J. Kalamarides

Clyde D. Robbins

John H. Gibson

James E. Dull Edwin P. Kohler Barry Birckhead Carole Moore Miller Templeton

William L. Fash Clifford R. Bragdon Joseph N. Smith John A. Templer

William M. Sangster W. D. Freeston

Charles E. Gearing Milton R. Blood

H. S. Valk Patrick Kelly Virginia S. Watts

Frank E. Roper William F. Leslie

Col. James L. Priest
Col. David B. Garvin
John W. Crenshaw, Jr.
J. Aaron Bertrand
Karl M. Murphy
Charles E. Weaver
Raymond E. Miller
Les A. Karlovitz
Louis J. Zahn
Capt. Charles E. Hill
James A. Reedy
Charles H. Braden
Edward H. Loveland
Daniel S. Papp

President

Executive Assistant to the President Assistant to the President/Employee Relations Assistant to the President/Athletics

Acting Vice President for Academic Affairs
Associate Vice President
Associate Vice President
Associate Vice President/Minority Educational Development
Associate Vice President/Media Instruction

Vice President for Research Associate Vice President for Research

Acting Vice President for Business and Finance

Vice President for Institute Relations and Development Assistant Vice President Assistant Vice President

Vice President for Planning

Affirmative Action Officer

Dean of Students
Associate Dean
Assistant Dean/Fraternity Affairs
Assistant Dean/Women's Activities
Assistant Dean/International Students

Dean, College of Architecture Assistant Dean/Extension Assistant Dean/Instruction Assistant Dean/Research

Dean, College of Engineering Associate Dean

Dean, College of Management Associate Dean

Dean, College of Sciences and Liberal Studies Associate Dean Assistant Dean

Registrar Associate Registrar

### COLLEGE OF SCIENCES AND LIBERAL STUDIES

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

# Administration

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	COLLEGE OF ENGINEERING
Arnold L. Ducoffe Joseph L. Pentecost Gary W. Poehlein J. Edmund Fitzgerald Demetrius T. Paris Milton E. Raville Harold E. Smalley Michael E. Thomas S. Peter Kezios L. E. Weaver Wayne C. Tincher	Director, School of Aerospace Engineering Director, School of Ceramic Engineering Director, School of Chemical Engineering Director, School of Civil Engineering Director, School of Electrical Engineering Director, School of Engineering Science & Mechanics Director, School of Health Systems Director, School of Industrial & Systems Engineering Director, School of Mechanical Engineering Director, School of Nuclear Engineering Acting Director, School of Textile Engineering
	Non-Academic
C. Evan Crosby J. W. Dees Frank H. Huff H. T. Marshall Charles R. Johnson Howard J. Fretwell John Eaton Rex D. Hardaway Theodore W. Marvin Kathleen Stanwyck	Budget Director Director, Contract Administration Comptroller Director, Internal Auditing Systems and Procedures Director, Physical Plant Director, Personnel Acting Director, Bookstore Director, Purchasing and Property Control Director, Campus Safety Director, Financial Data Processing
Charles E. Harmon Tom Vitale Robert H. Rice Susan Langford Mary F. Peeks Susan Langford Dell Sikes Claude L. Saunders Barbara Rose Mary Kay Murphy Mary S. Retzer	Director, News Bureau Director, Publications Executive Director, Alumni Association Director, Alumni Programs Director, Alumni Placement Acting Director, Annual Giving Director, Corporate Relations and Placement Director, Estate Planning Director, Estate Gifts Director, Foundation Relations Director, Accounting
Donald J. Grace	Director, Engineering Experiment Station
James G. Wohlford James L. Garner Jerry L. Hitt William T. Lee	Director, Cooperative Division Director, Registration and Records Director, Admissions Director, Financial Aid
Nicholas Gordon James A. Strickland Gary J. Schwarzmueller Roger E. Wehrle H. Keith Ivey	Director, Student Health Services Director, Student Counseling Center Director, Housing Director, Student Center Director, New Student Orientation
Robert V. Dean E. Jo Baker C. P. Reed, Jr. E. Graham Roberts Charles R. Vail Jack M. Spurlock Homer Rice	Director, Center for Media-Based Instruction Acting Director, Institutional Research Director, Computing Services Director, Libraries Director, Continuing Education Director, Interdisciplinary Programs Director, Athletics

### **Degrees Offered**

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The Georgia Institute of Technology offers the curricula leading to the following undergraduate degrees:

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Bachelor of Aerospace Engineering
Bachelor of Ceramic Engineering
Bachelor of Chemical Engineering
Bachelor of Civil Engineering
Bachelor of Electrical Engineering
Bachelor of Engineering Science
Bachelor of Industrial Engineering
Bachelor of Mechanical Engineering
Bachelor of Nuclear Engineering
Bachelor of Textile Engineering
Bachelor of Science
Bachelor of Science (Architecture)
Bachelor of Science in Applied Biology
Bachelor of Science in Applied Mathematics
Bachelor of Science in Applied Physics
Bachelor of Science in Applied Psychology
Bachelor of Science in Building Construction
Bachelor of Science in Chemistry
Bachelor of Science in Economics
Bachelor of Science in Health Physics
Bachelor of Science in Health Systems
Bachelor of Science in Information and Computer Science
Bachelor of Science in Industrial Design
Bachelor of Science in Industrial Management
Bachelor of Science in Management Science
Bachelor of Science in Physics
Bachelor of Science in Textile Chemistry
Bachelor of Science in Textiles
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Source: Registrar

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### **Degrees Offered**

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

Aerospace Engineering

Applied Physics

Architecture

Atmospheric Sciences

Biology

Ceramic Engineering

Chemical Engineering

Chemistry

City Planning

Civil Engineering

Electrical Engineering

Engineering Science and Mechanics

Geophysical Sciences

Health Physics

Health Systems

Industrial and Systems Engineering

Management

Information and Computer Science

 ${\tt Mathematics}$ 

Mechanical Engineering

Metallurgy

Nuclear Engineering

Operations Research

Physics

Psychology

Sanitary Engineering

Technology and Science Policy

Textile Chemistry

Textile Engineering

Textiles

### **Degrees Offered**

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

Aerospace Engineering Atmospheric Sciences Ceramic Engineering Chemical Engineering Chemistry

Civil Engineering and Sanitary Engineering

Economics

Electrical Engineering

Engineering Science and Mechanics

Geophysical Sciences

Industrial and Systems Engineering

Management

Information and Computer Science

Mathematics

Mechanical Engineering

Metallurgy

Nuclear Engineering Operations Research

Physics Psychology

Textile Engineering and Science

# Student Information



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### **Student Services**

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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 human beings.

Specific programs include:

Housing. Approximately 3,800 beds are provided in institutional residence halls. Fraternities provide another 800 on-campus beds. Apartments are provided for 300 married students. The Residence Hall Association (RHA) provides numerous social, academic and recreational activities.

Health Services. The Georgia Tech Infirmary is a completely modern hospital containing offices for outpatient treatment, X-ray, medical laboratory, physical therapy, and beds for 70 patients. Staff consists of several full-time physicians, registered nurses, and medical technicians. Visiting consultants in internal medicine, psychiatry, and radiology are available and special medical and dental needs are made available if specifically requested. Student health fees cover regular, on-campus services during school terms. Special referral services are paid individually. A special insurance plan covering students 24 hours per day during the entire year is made available to each student.

<u>Food Services.</u> Several dining facilities and meal plans ranging from 10 to 20 meals per week are available to all students.

<u>Safety.</u> Professionally trained police officers are on duty 24 hours a day seven days a week to insure the safety and welfare of the Georgia Tech community. First aid and around the clock ambulance service are provided.

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

<u>Placement</u>. The Georgia Tech Placement Office is one of the best known in the country and maintains continuous contact with industrial concerns, government agencies and other colleges to help place students, especially degree candidates, for career employment.

<u>Varsity Athletics</u>. The Georgia Tech Athletic Association promotes and supervises varsity competition in football, basketball, baseball, swimming, wrestling, gymnastics, golf, tennis, track and cross country. Intercollegiate athletics for women are currently offered in basketball, volleyball, softball, and tennis.

### **Student Services**

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Recreation. Intramural activities are based in the Callaway Athletic Complex containing a multi-purpose gymnasium, weight training, table tennis, driving ranges, gymnastics area, racquetball/handball/squash courts, and a 25 meter swimming pool with connecting diving well. The intramural program includes 33 sports.

<u>Student Center</u>. The Student Center contains facilities and staff services for all types of out-of-classroom social and special interest programs. A professional program staff and more than 20 student committees provide a complete range of social, artistic, cultural, and recreational programs for the Tech community.

<u>Fraternities and Sororities</u>. Twenty-nine social fraternities and five sorority national Greek letter societies have local chapters - some dating back to the founding of the institute.

<u>Student Organizations</u> - 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 sport/recreation organizations, 39 special interest groups, 15 religious organizations, 40 departmental professional and honor societies, and eight national honor societies.

A variety of general services are also available on the campus which include a post office, bookstore, vending and laundry areas, and legal aid for students service.

Source: Dean of Students

### **Cooperative Plan**

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Since 1912 Georgia Tech has offered a five-year cooperative program to those students who wish to combine industrial work experience with their classroom studies. The students who enroll in this program alternate their time 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 choice of a career. Students are also given a chance to develop skills in human relations through their work experiences. They are paid for working in industry and are able to save a portion of their salaries which can be applied to their educational expenses. The Georgia Tech Engineering Experiment Station is currently the largest single employer of Georgia Tech cooperative students.

One of the oldest employers of cooperative plan students is the Georgia Power Company. Among the more than 400 participating companies are E. I. DuPont de Nemours & Co., Inc., Lockheed Georgia Company, the Tennessee Valley Authority, the State of Georgia, General Electric Company, Westinghouse Electric Company, ITT Raynier, 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 Five Year Comparison

	1974-1975	1979-1980	Percent Increase
Cumulative Enrollment	1,152	2,113	83
Students Graduated	148	178	57

Source: Director of the Cooperative Division

### Student Financial Aid

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In addition to state and federal student assistance funds, Georgia Tech has recevied support from private industry, business, foundation and individual sources which has created a wide range of scholarship and loan awards to deserving students. In the past five years, the Basic Educational Opportunity Grant Program has grown six-fold and the total federal funds have increased by a factor of approximately 2.7. Georgia Tech has been successful in attracting National Merit and Achievement scholars; ranking first in the national among public schools for the number of achievement scholars enrolled; second in the public sector for merit scholars; and on a per capita enrollment basis, outranking number one Michigan State by more than 3 to 1. In summary, financial aid to Georgia Tech students has grown by a factor of 3.0 since 1975, enabling the institute to attract and retain more and better students who would otherwise not be able to pursue their studies here.

FIVE YEAR COMPARISON

	<u>1975-76</u>		<u>197</u>	<u>1979-80</u>		
Georgia Tech Awards	NUMBER OF AWARDS	AMOUNT OF AWARDS	NUMBER OF AWARDS	AMOUNT OF AWARDS	PERCENT DOLLAR INCREASE	
Nat'l Dir. Student Loans Supp. Ed. Opp. Grants College Work Study Program Basic Ed. Opp. Grants	645 233 155 375	\$ 574,787 136,721 117,385 281,609	1,032 461 159 2,186	\$ 708,476 245,715 103,614 1,912,789	23.2% 29.7% 11.7% 579.2%	
SUBTOTAL FEDERAL FUNDS	1,408	\$ <u>1,110,502</u>	3,838	\$2,970,594	169.5%	
Ga. Tech Nat'l Merit Ga. Tech Nat'l Ach.	160 <u>6</u>	\$ 73,217 5,950	298 64	\$ 120,119 54,981	64.1% 824,1%	
SUBTOTAL MERIT/ACH.	166	\$ <u>79,167</u>	362	\$ 175,100	121.1%	
Institutional Sch. Short term Loans Emergency Loans	499 1,433 79	\$ 299,284 \$ 346,979 \$ 3,990	975 2,249 90	\$ 687,920 \$ 825,933 6,629	129.9% 138.0% 66.1%	
SUBTOTAL GA. TECH AID	3,585	\$1,839,922	7,514	\$ <u>4,666,176</u>	153.6%	
Outside Awards						
Ga. Incentive Sch. Misc. Sch. Misc. Grants Ga. Guaranteed Loans Other Guaranteed Loans Misc. Loans	58 355 63 242 143 56	\$ 17,755 213,920 35,532 319,484 226,240 73,144	389 463 87 749 708 52	\$ 101,000 322,282 42,880 1,427,625 1,427,078 83,314	468.9% 50.7% 20.7% 341,9% 530.8% 13.9%	
SUBTOTAL OUTSIDE AID	917	\$ <u>886</u> ,075	2,448	\$3,404,280	284.2%	

Source: Director of Student Financial Aid

TOTAL

\$2,725,997

4,502

9,962

\$8,070,456

196.1%

### **ROTC**

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### ARMY ROTC

On March 26, 1918, under a War Department order, the Army ROTC unit was established at what was then the Georgia School of Technology. Today the unit has 74 members, four of whom are women. Of the unit 44 are scholarship students. Army ROTC scholarships are awarded on a competitive basis with emphasis on student qualifications. Georgia Tech has one of the nation's highest per capita percentages of Army ROTC scholarships.

#### AIR FORCE ROTC

Air Force ROTC has been an integral part of the Georgia Tech since 1948, one year after the Air Force became a separate branch of the Armed Forces. Today the unit numbers 293, with 42 women cadets. The unit is the third largest in the nation excluding military schools and ranks first in the number of students on scholarships.

#### NAVY ROTC

In 1926, the Navy Department authorized the establishment of Reserve Officers' Training Corps Units at six colleges. The Georgia School of Technology was the first of the institutions to have a unit. Today the unit has 240 members, eight of whom are women.

Source: Commanding Officer, Army ROTC
Commanding Officer, Air Force ROTC
Commanding Officer, Navy ROTC

### Freshman Profile

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### FRESHMAN PROFILE 1975

### Entering Freshmen

N = 1,653

PERCENTILE	HIGH SCHOOL <u>Average</u>	SAT* <u>Verbal</u>	SAT* <u>Mathematics</u>
90	4.0	655	722
80	3.9	619	692
70	3.7	580	666
60	3.6	554	634
50	3.5	530	622
40	3.3	508	603
30	3.1	485	580
20	3.0	457	552
10	2.8	419	520
AVERAGE	3.4	528	616

### FRESHMAN PROFILE 1980

### Entering Freshmen

N = 2,140

PERCENTILE	HIGH SCHOOL Average_	SAT* <u>Verbal</u>	SAT* <u>Mathematics</u>
90	4.0	647	731
80	3.9	604	700
70	3.8	579	675
60	3.7	557	657
50	3.6	533	638
40	3.5	511	618
30	3.3	489	600
20	3.2	465	574
10	3.0	431	541
AVERAGE	3.5	531	631

\*Scholastic Aptitude Test

# **Enrollment by USA States and Territories**

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Alabama	206	Missouri	47	
Alaska	2	Montana	4	
Arizona	8	Nebraska	6	
Arkansas	29	Nevada	6	
California	58	New Hampshire	10	
Canal Zone	4	New Jersey	269	
Colorado	21	New Mexico	6	
Connecticut	98	New York	357	
District of Columbia	13	North Carolina	205	
Delaware	28	North Dakota	4	
Florida	951	Ohio	130	
Georgia	6,116	Oklahoma	12	
Hawaii	10	Oregon	5	
Idaho	2	Pennsylvania	184	
Illinois	77	Puerto Rico	95	
Indiana	33	Rhode Island	19	
Iowa	11	South Carolina	219	
Kansas	13	Tennessee	229	
Kentucky	64	Texas	64	
Louisiana	70	Utah	1	
Maine	15	Vermont	8	
Maryland	202	Virginia	226	
Massachusetts	88	Virgin Island	2	
Michigan	50	Washington	13	
Minnesota	13	West Virginia	24	
Mississippi	26	Wisconsin	20	
	Alaska Arizona Arkansas California Canal Zone Colorado Connecticut District of Columbia Delaware Florida Georgia Hawaii Idaho Illinois Indiana Iowa Kansas Kentucky Louisiana Maine Maryland Massachusetts Michigan Minnesota	Alaska 2 Arizona 8 Arkansas 29 California 58 Canal Zone 4 Colorado 21 Connecticut 98 District of Columbia 13 Delaware 28 Florida 951 Georgia 6,116 Hawaii 10 Idaho 2 Illinois 77 Indiana 33 Iowa 11 Kansas 13 Kentucky 64 Louisiana 70 Maine 15 Maryland 202 Massachusetts 88 Michigan 50 Minnesota 13	Alaska 2 Montana Arizona 8 Nebraska Arkansas 29 Nevada California 58 New Hampshire Canal Zone 4 New Jersey Colorado 21 New Mexico Connecticut 98 New York District of Columbia 13 North Carolina Delaware 28 North Dakota Florida 951 Ohio Georgia 6,116 Oklahoma Hawaii 10 Oregon Idaho 2 Pennsylvania Illinois 77 Puerto Rico Indiana 33 Rhode Island Iowa 11 South Carolina Kansas 13 Tennessee Kentucky 64 Texas Louisiana 70 Utah Maine 15 Vermont Maryland 202 Virginia Massachusetts 88 Virgin Island Michigan 50 Washington Minnesota 13 West Virginia	Alaska         2         Montana         4           Arizona         8         Nebraska         6           Arkansas         29         Nevada         6           California         58         New Hampshire         10           Canal Zone         4         New Jersey         269           Colorado         21         New Mexico         6           Connecticut         98         New York         357           District of Columbia         13         North Carolina         205           Delaware         28         North Dakota         4           Florida         951         Ohio         130           Georgia         6,116         Oklahoma         12           Hawaii         10         Oregon         5           Idaho         2         Pennsylvania         184           Illinois         77         Puerto Rico         95           Indiana         33         Rhode Island         19           Iowa         11         South Carolina         219           Kansas         13         Tennessee         229           Kentucky         64         Texas         64           <

# Admissions from Foreign Countries

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Algeria	30	Greece	31	Netherlands W. Indies	1
Argentina	1 🗸	Guatemala	3	Nicaragua	7 🛩
Australia	2	Guyana	11114	Nigeria	15
Austria	1	Haiti	1~	Pakistan	8
Bahamas	5/	Honduras	134	Panama	23/
Bangledesh	2	Hong Kong	25	Peru	11
Belgium	4	Iceland	4	Philippines	4
Bermuda	2,	India	48	Portugal	1
Bolivia	1.	Indonesia	3	Rhodesia	2
Brazil	4./	Iran	77	Rumania	2
Canada	10	Iraq	4	Salvador	13-
Chile	3/	Ireland	3	Saudi Arabia	6
China	98	Israel	4	Singapore	2
China People Republic	1	Italy	1	Spain	1
Colombia	34/	Ivory Coast	2	Sudan	1
Costa Rica	11	Jamaica	11~	Sweden	2
Cuba	9.	Japan	14	Switzerland	5
Cyprus	1	Jordan	8	Syria	3
Dominican Republic	8~	Kenya	1	Thailand	30
Ecuador	24	Korea	27	Trinidad	1~
Egypt	11	Lebanon	42	Turkey	18
England	11	Libya	1	United Arab Republic	3
Finland	1	Malagasy	2	Uruguay	1~
France	5	Malaya	5	USSR	2
Gambia	1	Mexico	29~	Venezeula	50 V
Germany	21	Morocco	1	Vietnam	7
Ghana	2	Netherland	1		201/84

### Enrollment

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### FALL QUARTER 1980

Residents of Georgia	6,116
Residents of Other States	4,156
Residents of Foreign Countries	989
TOTAL	11,261
JEPHS (Joint Enrollment Program from High Schools)	24
Freshmen	2,467
Sophomores	2,287
Juniors	2,147
Seniors	2,297
Transients	40
Special Students	27
NEW STUDENTS	
Beginning Freshmen	1,611
Transfer Freshmen	39
Sophomores	245
Juniors	116
Graduate Students	586
Transients	21
Special Students	25
TOTAL	2,661
Men	9,082
Women	2,179

# Student Credit Hours Produced (Summer 1979 through Spring 1980)

	Lower Division	Upper Division	Graduate Division
College of Architecture	2,907	3,985	2,750
College of Management	4,786	7,182	1,609
College of Engineering	9,978	41,305	9,370
College of Science & Liberal Studies	72,428	16,999	3,742
College of Engineering			
Aerospace	381	1,363	645
Ceramic	87	594	204
Chemical	1,014	2,676	545
Metallurgy		682	362
Civil	764	3,205	1,367
Electrical	1,508	11,842	2,527
Engineering Graphics	1,897		
Engineering Science & Mechanics	2,667	3,753	323
Health Systems	118	474	165
Information & Systems Engineering	161	6,653	1,678
Mechanical Engineering	798	8,752	716
Nuclear Engineering	163	366	611
Textile Engineering	420	945	227
College of Science & Liberal Studies			
Biology	728	580	92
Chemistry	10,126	2,391	608
English	9,728	2,035	
GeoPhysical Science	777	225	362
History	3,171	696	
Information Computer Science	2,505	2,500	1,426
Math	22,359	3,352	456
Modern Languages	3,667	575	
Music	196	97	
Physical Education	3,956		
Physics	12,365	1,261	523
Philosophy of Science & Technology	540	96	
Political Science	1,887	408	
Psychology		2,536	227
Sociology	423	247	48

# Degrees Awarded

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	1976-1977	1978-1979	1979-1980
Bachelor's	1,232	1,478	1,581
Male	1,093	1,252	1,313
Female	139	226	268
In-state	650	890	958
Out-of-state	582	588	623
Master's	501	557	551
Male	455	485	494
Female	46	67	57
In-state	137	233	208
Out-of-state	363	319	343
Doctor's	66	49	58
Male	63	46	56
Fema le	3	3	2
In-state	11	13	22
Out-of-state	55	36	36
All Degrees	1,799	2,079	2,190
Male	1,611	1,783	1,863
Female	188	296	327
In-state	798	1,136	1,188
Out-of-state	1,001	943	1,002

### **Placement**

#### Fred W. Ajax Placement Center

Georgia Tech operates a centralized placement operation serving all students for career employment as well as part-time, temporary and summer employment. Two objectives of the center are to assist students in determining career objectives and attaining career and employment goals.

The Placement Center maintains a library of general business, industry and government career and occupational information. In addition, the Placement Center keeps local and national salary data, employment patterns of Georgia Tech graduates (who hires them for what kinds of positions and where), and graduate and professional school information.

Other Services of the Placement Center include seminars on the employment process, personal counseling, employment interviews and a weekly lisiting of visiting companies. An open resume file for employers, campus contacts with representatives of the top graduate schools, a library of information on the job market and a resume service are also available.

A student can explore career interests with more than 630 employers who deal directly with the Placement Center, usually through an on-campus interview. These employers represent a substantial number of the Fortune 500 as well as many regional organizations. Over 1,600 summer, part-time and temporary positions are posted annually and 40 to 60 percent are filled by Tech students.

### Alumni Placement Office

The Georgia Tech Alumni Placement Office offers its services to both alumni and graduating seniors. Funded through the Georgia Tech National Alumni Association's Roll Call contributions the placement office publishes a weekly bulletin of job opportunities.

Other services available include counseling in all facets of the employment process, with emphasis on resume preparation. This is a major phase of the office's services as many alumni who begin their job searches have not been in the job market for a number of years.

According to the College Placement Council there are only six colleges in the country that have an alumni placement service completely separate from student placement. Of these six, Georgia Tech's Alumni Placement is the only one publishing a weekly bulletin. In 1979-80 there were 55,250 bulletins mailed to 3,478 alumni. Of the 2,414 companies listed in the bulletin during the course of the year 516 listed two or more jobs.

Sources: Director, Fred W. Ajax Placement Center Director, Alumni Placement Center

# **Starting Salaries for Graduates**

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The average starting  $\underline{\text{salary offers}}$  shown were computed from employer correspondence only. The average accepted salaries shown were computed from data supplied by  $\underline{\text{JUNE GRADUATES}}$ .

<u>Curriculum</u>	Degree	High <u>Offer</u>	Low <u>Offer</u>	Average Offer/No.	Average June Accepted/No.
Aerospace Engineering	B M	\$2080 2100	\$1475 1708	\$1689/32 1919/6	\$1668/10
Applied Mathematics	B M	\$1558 2175	\$1558 1925	\$1558/1 2033/3	\$1920/1
Architecture	В				\$1000/1 1200/1
Building Construction	В	\$1581	\$1407	\$1537/4	\$1490/4
Ceramic Engineering	В	\$1541	\$1541	\$1541/1	
Chemical Engineering	B M	\$2667 2008	\$1540 2008	\$1821/226 2008/1	\$1853/40
Chemistry	B D	\$1541 2375	\$1450 2178	\$1500/3 2276/2	\$1591/1 2245/3
City Planning	М				\$1400/1
Civil Engineering	B M	\$2000 1817	\$1176 1542	\$1571/70 1667/5	\$1648/15
	D	1017	1342	1007/3	\$2500/1
Economics	В				\$1634/2
Electrical Engineering	B M D	\$2033 2266 2916	\$1333 1608 2250	\$1723/256 1911/62 2527/7	\$1721/44 1962/11 2600/1
Engineering Science	В	\$1850	\$1575	\$1682/6	\$1611/6
Engineering Science & Mechanics	М	\$2041	\$1650	\$1888/6	
Geophysical Science	M D	\$2045 1825	\$1900 1800	\$1957/9 1808/3	\$1950/2
Health Systems	В				\$1500/1
Industrial Design	В	\$1721	\$1721	\$1721/1	
Industrial Management	B M	\$2036 2000	\$1166 1416	\$1448/35 1702/8	\$1375/34 2000/1
Industrial & Systems Engineering	B M D	\$1885 2125 2450	\$1259 1354 1750	\$1640/106 1867/15 2100/2	\$1673/33 1500/1
Information & Computer Science	8 M D	\$1863 2225 2300	\$1450 1750 2300	\$1648/15 1939/11 2300/1	\$1570/11 2025/2

# **Starting Salaries for Graduates**

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Curriculum	Degree	High Offer	Low Offer	Average Offer/No.	Average June Accepted/No.
Management Science	В	\$1458	\$1250	\$1354/2	\$1327/4
Mechanical Engineering	B M D	\$2385 2050 1733	\$1169 1608 1733	\$1714/242 1882/21 1733/1	\$1745/47 1988/3
Metallurgy	М	\$1920	\$1300	\$1610/2	\$1763/2
Nuclear Engineering	B M D	\$1775 1764 2550	\$1508 1609 2550	\$1619/25 1669/10 2550/1	\$1687/9 2550/1
Operations Research	М	\$1950	\$1764	\$1857/2	
Physics	В М	\$1775 1865	\$1090 1820	\$1617/5 1842/2	\$1738/2 1791/2
Psychology	В	\$1750	\$1750	\$1750/1	
Textile Chemistry	В	\$1910	\$1400	\$1759/5	\$1642/2
Textile Engineering	В	\$1500	\$1350	\$1425/2	\$1550/1
Textile Management	В				\$1333/1
Textiles	8 M D	\$1416 1780 2225	\$1416 1700 2225	\$1416/1 1740/2 2225/1	\$1735/1

### AVERAGE OFFERS FOR 1979-1980

		<u>% Change</u>
All BS Excluding Engineering	\$1521/67	÷ 13.8
All B/BS Degrees	\$1706/1039	+ 13.7
B in Engineering	\$1719.972	÷ 13.1
BS/Industrial Management	\$1443/37	+ 12.0
All M.S. Degrees	\$1871/165	+ 12.5
M. S. in Engineering	\$1866/132	+ 11.6
All Ph.D. Degrees	\$2260/18	+ 14.6

Source: Director, Fred W. Ajax Placement Center

# **Postgraduation Plans**

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September	~ 1979	Graduates

The College of:	Number Reporting	Accepted Employment	Graduate School	Entering Militar <u>y</u>	Other No Plans 2
		# (%)	# (%)	# (%)	# (%) # (%)
ARCHITECTURE ENGINEERING MANAGEMENT SCIENCE & LIBERAL STUDIES	7 146 27 20	5 (71.4) 107 (73.3) 19 (70.4) 12 (60.0)	0 ( 0.0) 18 (12.3) 5 (18.5) 4 (20.0)	1 (14.3) 11 (7.5) 1 (3.7) 2 (10.0)	0 ( 0.0) 1 (14.3) 1 ( 0.7) 9 ( 6.2) 1 ( 3.7) 1 ( 3.7) 0 ( 0.0) 2 (10.0)
TOTAL	200	143 (71.5)	27 (13.5)	15 ( 7.5)	2 ( 1.0) 13 ( 6.5)
		1070 0 1			
	Decemb	oer 1979 Gradu	iates		
ARCHITECTURE ENGINEERING MANAGEMENT SCIENCE & LIBERAL STUDIES	3 140 32 19	1 (33.3) 98 (70.0) 17 (53.1) 12 (63.2)	2 (66.6) 21 (15.0) 3 (9.4) 1 (5.3)	0 ( 0.0) 5 ( 3.6) 2 ( 6.3) 2 (10.5)	0 ( 0.0) 0 ( 0.0) 4 ( 2.8) 12 ( 8.6) 3 ( 9.4) 7 (21.8) 1 ( 5.3) 3 (15.7)
TOTAL	194	128 (66.1)	27 (13.9)	9 ( 4.6)	8 ( 4.1) 22 (11.2)
	March	1980 Graduate	ıç		
*POUTECTURE	4	4(100.0)	0 ( 0.0)	0 ( 0.0)	0 ( 0.0) 0 ( 0.0)
ARCHITECTURE ENGINEERING	116	90 (77.6)	12 (10.3)	6 ( 5.2)	3 (2.6) 5 (4.3)
MANAGEMENT	28	17 (60.8)	2 ( 7.1)	1 ( 3.6)	2 ( 7.1) 6 (21.4) 0 ( 0.0) 1 ( 5.9)
SCIENCE & LIBERAL STUDIES	17	11 (64.7)	4 (23.5)	1 (5.9)	- ,,
TOTAL	165	122 (73.9)	18 (10.9)	8 ( 4.8)	5 ( 3.0) 12 ( 7.4)
	June 1	1980 Graduates	<u>.</u>		
ARCHITECTURE ENGINEERING MANAGEMENT SCIENCE & LIBERAL STUDIES	18 330 67 46	9 (50.0) 242 (73.3) 45 (67.2) 27 (58.8)	7 (38.9) 47 (14.2) 9 (13.4) 15 (32.6)	0 ( 0.0) 24 ( 7.3) 3 ( 4.5) 2 ( 4.3)	0 ( 0.0) 2 (11.1) 3 ( 1.0) 14 ( 4.2) 0 ( 0.0) 10 (14.9) 0 ( 0.0) 2 ( 4.3)
TOTAL	461	323 (70.1)	78 (16.9)	29 ( 6.3)	3 ( 0.6) 28 ( 6.1)
	1979-1	1980 Graduates	<u>i</u>		
ARCHITECTURE ENGINEERING MANAGEMENT SCIENCE & LIBERAL STUDIES GRAND TOTAL	32 732 154 102 1,020	19 (59.4) 537 (73.3) 98 (63.7) 62 (60.8) 716 (70.2)	9 (28.1) 98 (13.4) 9 (12.3) 24 (23.5) 150 (14.6)	1 (3.1) 46 (6.3) 7 (4.5) 7 (6.9) 61 (6.0)	0 ( 0.0) 3 ( 9.4) 11 ( 1.5) 40 ( 5.5) 6 ( 6.9) 24 (15.6) 1 ( 1.0) 8 ( 7.8) 18 ( 1.8) 75 ( 7.4)
•	•				

Source: Director, Fred W. Ajax Placement Center

 $<sup>^{1}\</sup>mbox{Includes}$  travel, return to native country, homemaker, etc.

 $<sup>^2\</sup>mathrm{No}$  follow-up study was conducted for those classified as Other, No Offers or No Plans

0 - 100 100 - 500 500 - 1,000 1,000 - 4,000 **USA Geographical Distribution of Alumni** 

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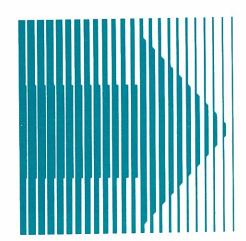
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# **General Information**



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### **Teaching Faculty Profile**

	DISTRIBUTION BY RANK										
	Prof	essor <u>%</u>		ciate essor <u>%</u>		istant f <u>essor</u>	Inst <u>N</u>	ructor <u>%</u>	Ot N	<u>her*</u> <u>%</u>	Total <u>N</u>
Full-Time Teaching Faculty General Administrators Academic Administrators Librarians Part-Time Faculty**	39 2	4.89 66.67 82.98 6.45 17.86	165 0 6 12 16	31.98 12.77 38.71 28.57	1 0 4	25.58 8.33 12.90 17.86	8 0 0 13 20	1.55 41.94 35.71	0 3 2 0 0	25.00 4.26	516 12 47 31 56
TOTAL	279	40.79	199	10.06	147	22.21	41	6.18	5	.76	662

	DISTRIBUTION BY HIGHEST DEGREE										
	Doctorate	Mas	ter's	Baccal	aureate		r***	<u>Total</u>			
	<u>N</u> %	N	<u>%</u>	<u>N</u>	<u>%</u>	N	<u>%</u>	N			
Full-Time Teaching Faculty	434 84.11	61	11.82	8	1.55	13	2.52	516			
General Administrators	9 75.00	2	16.67	1	8.33	0	0	12			
Academic Administrators	42 89.36	4	8.51	1	2.13	0	0	47			
Librarians	2 6.45	26	83.87	3	9.68	0	0	31			
Part-Time Faculty	<u>32</u> 57.14	_12	21.43		12.50	<u>5</u>	8.93	56			
TOTAL	519 78.40	105	15.86	20	3.02	18	2.72	662			

	4	<u>DISTRI</u> 1ale		ON BY S	EX Total	To	DISTRIBU enured		Y TENURE Tenured	STATUS Total
	<u>N</u>	%	M	<u>%</u>	<u>N</u>	N	<u>%</u>	<u>N</u>	<u>%</u>	<u>N</u>
Full-Time Teaching Faculty General Administrators Academic Administrators Librarians Part-Time Faculty	11 45 6	93.60 91.67 95.74 19.35 89.29		6.40 8.33 4.26 80.65 10.71	516 12 47 31 56	334 7 42 15 10	64.73 58.33 89.36 48.39 27.86	182 5 5 16 46	35.27 41.67 10.64 51.61 82.14	516 12 47 31 
TOTAL	595	89.88	67	10.12	662	408	62.63	154	38.37	662

<sup>\*</sup>no rank

Source: Annual Report to the Board of Regents

<sup>\*\*</sup>Includes only those part-time faculty (those persons who are less than .75 EFT) who are on an academic year contract; does not include part-time faculty who are hired on a per course, per quester basis as needed.

<sup>\*\*\*</sup>no degree

### **Financial Data**

	FY 78	FY 79	FY 80
REVENUE			
General Operations Student Tuition and Fees Gifts and Grants Indirect and Cost Recovery Continuing Education and Fees Other Internal Revenue Sub Total State Appropriation	\$ 9,993,042 1,977,522 6,383,803 463,454 1,742,666 20,560,487 28,460,885	\$ 10,773,597 913,390 9,038,118 594,278 2,195,593 23,514,976 30,818,520	\$ 12,273,519 1,107,726 10,946,238 732,353 3,733,982 28,793,817 34,373,295
Total General Operations	\$ 49,021,372	\$ 54,333,496	\$ 63,167,112
Sponsored Operations (Research and Education) Departmental Sales and Services Scholarships and Fellowships Auxiliary Enterprise	19,990,919 967,295 1,759,068 7,620,800	26,932,919 110,789 1,280,555 8,886,919	31,445,223 364,172 1,650,092 10,615,272
Total Revenue	\$ 79,359,454	\$ 91,553,678	\$ 107,241,871
EXPENDITURES			
General Operations Research Academic Support Student Services Institutional Support Operation and Maintenance	\$ 15,035,780 11,540,585 3,857,834 1,138,116 5,854,786	\$ 17,178,520 14,458,746 4,501,501 1,218,520 6,586,530	\$ 19,398,949 17,414,404 5,046,797 1,426,048 7,947,401
of Plant Plant Fund	6,507,777 5,242,948	7,251,390 2,962,927	8,507,529 3,498,266
Total General Operations Sponsored Operations (Research	49,177,876	54,158,135	63,239,404
and Education)  Departmental Sales and Services Scholarships and Fellowships Auxiliary Enterprise Reserve	19,990,919 967,295 1,759,068 7,620,800 (156,454)	26,932,919 119,789 1,280,555 3,886,919 (175,361)	31,445,223 364,172 1,650,092 10,615,272 (72,292)
Total Expenditure	\$ 79,359,454	\$ 91,553,678	\$ 107,241,871
INVESTMENT IN PLANT			
Land	\$ 8,344,911	\$ 9,113,760	\$ 9,703,763
Buildings	81,379,575	82,682,547	84,821,939
Improvements Other Than Buildings	8,792,367	9,466,142	9,938,746
Equipment	41,993,607	47,128,611	50,748,698
Library Collections	7,903,095	8,936,442	9,919,424
Total Investment in Plant	\$ 148,413,555	\$ 157,327,505	\$ 165,132,570

Source: Vice President for Business and Finance

### Georgia Tech Foundation, Inc.

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The Georgia Tech Foundation, Inc., is a non-profit corporation which receives, administers, and invests virtually all contributions made in support of the Georgia Institute of Technology. It has been formally 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 32 individuals distinguished by their expertise in financial management, investments, the legal aspects of such organizations, and their continuing support of the institute. Emeritus Trustees also are encouraged to attend the Board's meetings and to maintain their interest in the affairs of Tech and the Foundation.

The assets of the Foundation include more than \$15 million in endowment and over \$5 million in annually expendable gifts. Allocations of these funds are made on a monthly basis to meet the most pressing needs of the Institute, particularly at this time in its history for faculty salary supplementation, travel, and other funding needed to maintain a strong instructional staff; undergraduate and graduate student support, both for needy and exceptionally well-qualified students such as National Merit Scholars and National Achievement Scholars; and research support, including equipment.

The elected officers of the Foundation are Alvin Ferst, president; Erskine Love, vice president; and Robert Ferst, treasurer. The appointed officers, who are responsible for its day-to-day administration are Warren Heemann, vice president; and John Kalamarides, secretary. The office of the Foundation is located on the second floor of the new L. W. "Chip" Robert Alumni Faculty House on North Avenue.

Source: Vice President of the Georgia Tech Foundation, Inc.

### Library

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The Price Gilbert Memorial Library's scientific, engineering, architectural and management collection includes 990,000 volumes, 1,365,000 microtexts and 235,00 other bibliographic units.

The library has a collection of over four million 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 Ocean Survey.

Over 11,300 serials, including 6,200 periodicals, are currently received, approximately 80 percent of them 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. Twice daily books and other library documents are delivered to requesting faculty. The Georgia Tech library participates in consortium with eight 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 collection of both libraries.

The library's vast store of information is also available to the off-campus businessman, industrialist and engineer. The on-demand information service offered is financed from fees charged for services rendered. Available are search services, computer or manual; copying services, loan services and delivery services.

Source: Director of the Price Gilbert Memorial Library

### **Computing Services**

The Office of Computing Services is responsible for the coordination of all computing activities on the Georgia Tech campus. A major function of the office is the operation of a central facility for providing effective, efficient, and conveniently accessible computing services and resources to students, faculty, and staff in support of education, research, and administration.

The staff consists of over 60 technical personnel organized into three major divisions:

- The Computer Operations Division is responsible for managing all operational aspects of the centralized facilities. It is further organized into four units, User Services, Systems Programming, Data Processing and Engineering.
- 2. The Applications System Design Division coordinates the design and development of computer oriented campus information systems.
- 3. The Applications Programming Division coordinates the implementation and operation of computer oriented campus information systems.

The centralized computing facility consists of a Control Data Corporation dual processor CYBER 70 Model 74-28 and a CDC 6400 coupled through extended core storage. The three CPU's within this coupled system are capable of executing about 4.7 million instructions per second. Attached to this is an array of magnetic tape units, disk drives, card reader/punches, local printers, and data communications equipment. The data communications system is connected through a dual Interdata minicomputer 780 micro-computer front-end system that accommodates various synchronous and asynchronous line speeds for remote job entry and interactive terminals.

Additional access to the system is provided through two user-operated batch terminals and 49 hardwired interactive terminals located within the Rich Building, and over 200 ports for the many remote batch and interactive terminals provided by other campus units.

Computing Services also provides many support services to make the use of the computing system easier. These include user operated keypunches, a professional keypunch service, a Calcomp 763 pen plotter, a Versatec electrostatic plotter, and an NCS 7010 optical mark reader, and an on-line mass storage facility capable of storing 20 billion characters.

Source: Director of Computing Services

# **Physical Facilities**

# SQUARE FOOTAGE BY FUNCTIONAL AREA Fall, 1980

Seneral Academic   848,599   848,599	INSTRUCTION		
Research Centers (EES)         314,966           Individual or Project Research         245,220         560,186           PUBLIC SERVICE         Community Education         18,897         18,897           ACADEMIC SUPPORT         140,576         4,821         4,821           Libraries         140,576         4,821         4,821           Audio/Visual         2,540         2,821         4,821           Computing Support         18,221         4,843         169,750           STUDENT SERVICES         20,603         4,843         169,750           STUDENT SERVICES         5,320         5,320         5,320           Student Support         718,733         984,887           INSTITUTIONAL SUPPORT         20,467         4,600           Executive Management         9,592         5,920           Fiscal Operations         20,467         6,069           General Administrative Services         12,600         1,600           Logistical Services         11,600         1,600           Community Relations         63,047         6,324           Faculty and Staff Services         11,600         1,464,979           INDEPENDENT OPERATIONS         11,563         11,563           U	General Academic	848,599	848,599
Individual or Project Research   245,220   560,186	ORGANIZED RESEARCH		
PUBLIC SERVICE   Community Education   18,897   18,291	Research Centers (EES)	314,966	
Community Education         18,897         18,897           ACADEMIC SUPPORT	Individual or Project Research	245,220	560,186
Community Education         18,897         18,897           ACADEMIC SUPPORT	PUBLIC SERVICE		
Libraries		18,897	18,897
Libraries	ACADEMIC SUPPORT	<del></del>	
Computing Support   Academic Administration & Personnel Development   8,413   169,750		140,576	
Academic Administration & Personnel Development 8,413 169,750  STUDENT SERVICES  Social and Cultural Development 260,834 Counseling and Career Guidance 5,320 Student Support 718,733 984,887  INSTITUTIONAL SUPPORT Executive Management 9,592 Fiscal Operations 20,467 General Administrative Services 12,600 Logistical Services 16,069 Physical Plant Operations 63,047 Faculty and Staff Services 11,600 Community Relations 16,152 149,527  INDEPENDENT OPERATIONS Outside Agencies 11,563 11,563  UNASSIGNED Incapable of Use 96,269 96,269  BUILDING SERVICES Circulation, Mechanical, Construction, Custodial 1,464,979 1,464,979	Audio/Visual	2,540	
STUDENT SERVICES   Social and Cultural Development   260,834   Counseling and Career Guidance   5,320   Student Support   718,733   984,887	Computing Support	18,221	
Social and Cultural Development	Academic Administration & Personnel Development	8,413	169,750
Counseling and Career Guidance         5,320           Student Support         718,733         984,887           INSTITUTIONAL SUPPORT         9,592           Executive Management         9,592           Fiscal Operations         20,467           General Administrative Services         12,600           Logistical Services         16,069           Physical Plant Operations         63,047           Faculty and Staff Services         11,600           Community Relations         16,152         149,527           INDEPENDENT OPERATIONS         11,563         11,563           UNASSIGNED         11,563         11,563           UNASSIGNED         96,269         96,269           BUILDING SERVICES         96,269         96,269           Circulation, Mechanical, Construction, Custodial         1,464,979         1,464,979	STUDENT SERVICES		
Student Support   718,733   984,887	Social and Cultural Development	260,834	
INSTITUTIONAL SUPPORT  Executive Management 9,592 Fiscal Operations 20,467 General Administrative Services 12,600 Logistical Services 16,069 Physical Plant Operations 63,047 Faculty and Staff Services 11,600 Community Relations 16,152 149,527  INDEPENDENT OPERATIONS Outside Agencies 11,563 11,563  UNASSIGNED Incapable of Use 96,269 96,269  BUILDING SERVICES Circulation, Mechanical, Construction, Custodial 1,464,979 1,464,979	Counseling and Career Guidance	5,320	
Executive Management       9,592         Fiscal Operations       20,467         General Administrative Services       12,600         Logistical Services       16,069         Physical Plant Operations       63,047         Faculty and Staff Services       11,600         Community Relations       16,152       149,527         INDEPENDENT OPERATIONS       11,563       11,563         UNASSIGNED       11,563       11,563         UNASSIGNED       96,269       96,269         BUILDING SERVICES       296,269       96,269         Circulation, Mechanical, Construction, Custodial       1,464,979       1,464,979	Student Support	718,733	984,887
Fiscal Operations 20,467 General Administrative Services 12,600 Logistical Services 16,069 Physical Plant Operations 63,047 Faculty and Staff Services 11,600 Community Relations 16,152 149,527  INDEPENDENT OPERATIONS Outside Agencies 11,563 11,563  UNASSIGNED Incapable of Use 96,269  BUILDING SERVICES Circulation, Mechanical, Construction, Custodial 1,464,979 1,464,979	INSTITUTIONAL SUPPORT		
General Administrative Services Logistical Services 16,069 Physical Plant Operations 63,047 Faculty and Staff Services 11,600 Community Relations 11,600 Community Relations 16,152 149,527  INDEPENDENT OPERATIONS Outside Agencies 11,563 UNASSIGNED Incapable of Use 596,269  BUILDING SERVICES Circulation, Mechanical, Construction, Custodial 1,464,979 1,464,979	Executive Management	9,592	
Logistical Services 16,069 Physical Plant Operations 63,047 Faculty and Staff Services 11,600 Community Relations 16,152 149,527  INDEPENDENT OPERATIONS Outside Agencies 11,563 11,563  UNASSIGNED Incapable of Use 96,269  BUILDING SERVICES Circulation, Mechanical, Construction, Custodial 1,464,979 1,464,979	Fiscal Operations	20,467	
Physical Plant Operations 63,047 Faculty and Staff Services 11,600 Community Relations 16,152 149,527  INDEPENDENT OPERATIONS Outside Agencies 11,563 11,563  UNASSIGNED Incapable of Use 96,269 96,269  BUILDING SERVICES Circulation, Mechanical, Construction, Custodial 1,464,979 1,464,979	General Administrative Services	12,600	
Faculty and Staff Services 11,600 Community Relations 16,152 149,527  INDEPENDENT OPERATIONS Outside Agencies 11,563 11,563  UNASSIGNED Incapable of Use 96,269  BUILDING SERVICES Circulation, Mechanical, Construction, Custodial 1,464,979 1,464,979	Logistical Services	16,069	
Community Relations 16,152 149,527  INDEPENDENT OPERATIONS Outside Agencies 11,563 11,563  UNASSIGNED Incapable of Use 96,269 96,269  BUILDING SERVICES Circulation, Mechanical, Construction, Custodial 1,464,979 1,464,979	Physical Plant Operations	63,047	
INDEPENDENT OPERATIONS Outside Agencies  UNASSIGNED Incapable of Use  SERVICES Circulation, Mechanical, Construction, Custodial  1,464,979  1,464,979	Faculty and Staff Services	11,600	
Outside Agencies	Community Relations	16,152	149,527
UNASSIGNED Incapable of Use SUILDING SERVICES Circulation, Mechanical, Construction, Custodial 1,464,979 1,464,979	INDEPENDENT OPERATIONS		
Incapable of Use 96,269  BUILDING SERVICES  Circulation, Mechanical, Construction, Custodial 1,464,979 1,464,979	Outside Agencies	11,563	11,563
BUILDING SERVICES  Circulation, Mechanical, Construction, Custodial 1,464,979 1,464,979	UNASSIGNED		
Circulation, Mechanical, Construction, Custodial 1,464,979 1,464,979	Incapable of Use	96,269	96,269
	BUILDING SERVICES		
CRAND TOTAL 4 204 CE7	Circulation, Mechanical, Construction, Custodial	1,464,979	1,464,979
GRAND TOTAL 4,304,037	GRAND TOTAL		4,304,657

Source: Vice President for Planning

### **Continuing Education**

The 32-institution University System of Georgia is committed, by action of the Board of Regents, to three major activities; teaching, research, and public service. In 1908--just twenty years after first opening its doors in 1888--Georgia Tech responded to a growing public service need by establishing a night school to provide a professional education service to working adults. Through the ensuing 72 years with occasional changes in its programs, as well as in its name and organizational structure, this unit has, without interuption, provided a continuing service to the adult community. In 1964 its name was officially changed to the "Department of Continuing Education of the Georgia Institute of Technology."

Through the public service activities of this Department, the Institute's resources in the areas of teaching and research can be utilized to bring to local, state, regional, national, and international communities continuously updated basic and advanced knowledge, skills, and technical expertise. These programs take the form of short courses and conferences which respond to the needs expressed by both individuals and management groups in industry and business, technical and professional societies, and government laboratories and agencies.

With regular college enrollments waning nationally, and greater numbers of adults wishing to obtain professional continuing education during non-working hours, the Department of Continuing Education faces a new and growing challenge. It is moving vigorously to meet that challenge by serving as the vehicle through which both on-campus and off-campus programs can be provided by the faculties of its four Colleges: Engineering, Architecture, Management and Sciences and Liberal Studies, as well as by the staff of the Engineering Experiment Station.

Program In	formation
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Number of:	1976-77	<u>1977-78</u>	1978-79	<u>1979-80</u>
Programs	151	96	104	106
Participants	4,381	6,039	4,810	4,689
States Represented*	47	49	46	49
Non U.S.A. Persons	68	225	415	576
Georgia Residents	1,036	1,276	1,504	2,101
Counties in Georgia Represented	67	76	87	90
Institutional CEŬ's	8,604	20,274	14,355	15,911

<sup>\*</sup>Includes the Canal Zone, Puerto Rico, and Virgin Islands

Source: Director of Continuing Education

### **Industrial Education**

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Industrial Education is part of the public service offering of Georgia Tech. Its purpose is to disseminate technical knowledge and assist industry with its special problems. Any industrial firm seeking a solution to a problem, whether technical or personnel-related may contact the department. Consultants with a broad spectrum of industrial expertise are available to assist in solving a wide range of industry problems.

For over sixty years the department has offered its expertise to industry through a variety of programs and seminars. Past programs for personnel-related problems have included the areas of supervisory training, safety and health, human relations, and labor relations. Technical programs have featured the areas of textile dye-bath reconstitution, chemical reclamation, wastewater treatment and toxic substances.

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

	1975-76	<u>1976-77</u>	<u>1977-78</u>	1978-79	<u>1979-80</u>
Number of classes	327	246	234	193	192
Number of Students Enrolled	3,253	2,892	3,330	2,772	2,809
Number of Plants Participating	63	80	69	63	69
Total Pupil Hours	117,387	93,026	79,719	68,115	50,714
Certificates Issued	997	1,826	1,225	1,043	1,645

Source: Director of Industrial Education

# Research Information



### Research

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Georgia Tech maintains one of the nation's largest engineering research programs. Of the more than 200 universities in the United States which offer engineering degrees, Tech ranked in the top five in level of research activity for the last two years, according to the National Science Foundation.

During fiscal 1980, total funding for the Institute's sponsored research programs was approximately \$45.5 million from around 940 contract and grant awards. These sponsored programs are performed by roughly 1,000 faculty members and over 600 graduate students who are partially support on sponsored research assistantships. Nearly 500 regular undergraduate students also are employed on Georgia Tech's research programs.

Research programs deal with a great variety of topics. Examples include: energy conservation methods for industry and the private sector; solar energy systems; alternative sources of fuels; pollution monitoring and environmental conservation; improved transportation systems, bioengineering leading to advanced medical instrumentation; digital computer technology; advanced communication and radar systems; improved paints and coatings; noise abatement; instruction methodology; intermediate technology for developing nations; improved meteorological instrumentation; corrosion prevention and advanced metallurgical technology; nuclear reactor design and applications; management systems; and national defense.

Statistically, FY 1979-80 appeared as follows in terms of approximate value of research program expenditures from all sources of revenue:

<u>Unit</u>	<u> 1976-77</u>	<u> 1977-78</u>	<u>1978-79</u>	<u>1979-80</u>	
Architecture Engineering Science and Liberal Studies Management	\$ 235,555 7,547,909 3,217,175 346,549	\$ 278,605 8,130,024 4,010,841 394,414	\$ 381,846 9,851,688 5,162,137 322,805	\$ 514,364 10,186,017 5,645,483 509,072	
Engineering Experiment Station	14,482,310	19,066,018	26,531,557	31,986,528	
Interdisciplinary Programs Radiological Safety All Other Units	131,778 73,589 421,373	174,317 82,011 467,662	203,898 89,433 733,903	281,149 102,839 992,187	
TOTALS	\$ 26,483,218	\$ 32,603,892	\$ 43,276,267	\$ 50,217,639	

In terms of value of contract/grant proposals and awards:

	<u>1974-75</u>	1975-76	1976-77	1977-78	1978-79	1979-80
Proposals Submitted Research Awards	866 501	1,057 600	1,178 720	1,299 822	1,232 786	1,486 937
Value in Millions	\$ 13.3	\$ 17.8	\$ 24.6	\$ 31.5	\$ 37.4	\$ 45.5

Source: Vice President for Research

### **Engineering Experiment Station**

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The Engineering Experiment Station (EES) is a major non-profit center for advanced technology, dedicated to research and service for Georgia, for the nation and for a growing number of industrial and overseas clients. The EES missions established by the State legislature include: participating in national programs of science, technology and preparedness; promoting business and economic development; encouraging use of Georgia's natural resources; and providing technological support to the state's industries and local governments.

More than nine out of every ten dollars spent in the operation of EES in FY 81 will come from industrial and government contracts for research and development. The balance of funding comes from a state appropriation which is used to serve Georgia needs, develop new research initiatives and share costs on federal programs of importance to the state.

The Engineering Experiment Station not only brings income directly to Georgia through contracts, but also indirectly through attraction of new industries, development of new businesses and creation of jobs for existing \$28 million in FY 80. The state appropriation and other funds raised the total to \$32 million, making 1980 the fifth consecutive year in which the Station's annual growth rate exceeded 30 percent, compounded.

EES programs range from the analyses of systems for monitoring stratospheric pollution to the design and implementation of new radars and from the most basic neutrino physics experiments to the development of economically viable solar-heated chicken houses. Research programs range in scope from an \$8 million contract with a federal agency to a \$500 contract with a rural industry.

Nearly two thirds of the Station's research activity is in the broad field of electronics, including defense electronics, electronic systems, electronic techniques and components, antennas, electromagnetics and optics. Energy is the second largest segment, with research in alternate energy systems and energy conservation applications accounting for 15 percent of the total effect. Economic development consists of 9 percent of EES' work and computer applications and technology another 7 percent. The balance is in the combined fields of physical, chemical and material sciences.

### **Engineering Experiment Station**

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EES operates a statewide extension service and maintains eight Georgia area development offices located in Albany, Augusta, Carrollton, Douglas, Gainesville, Macon, Rome and Savannah. Electronics-applications offices are maintained in Huntsville, Alabama, and Warner Robins, Georgia. In addition, the EES International Programs Division has opened an Asia office in Manila, Phillipines.

The Station is an intergral part of Georgia Tech, reporting through the Vice President for Research. Its staff numbers over eleven hundred persons, half of whom are full-time professionals and one third Georgia Tech students. It is divided into eight major operating units which conduct diversified basic and applied research programs in all scientific and engineering disciplines and many multi-disciplinary programs.

Source: Director, Engineering Experiment Station

### Administration

#### ADMINISTRATION

Donald J. Grace

Howard G. Dean, Jr. James C. Wiltse, Jr. Rudolph L. Yobs

Director

Associate Director Associate Director Associate Director

### Resources Laboratories

Director, Economic Development Laboratory
Director, Energy & Materials Sciences Laboratory
Director, Technology Applications Laboratory

### Electronics Laboratories

Acting Director, Electromagnetics Laboratory
Director, Electronics & Computer Systems Laboratory
Director, Radar & Instrumentation Laboratory
Systems Engineering Laboratory
Systems & Techniques Laboratory

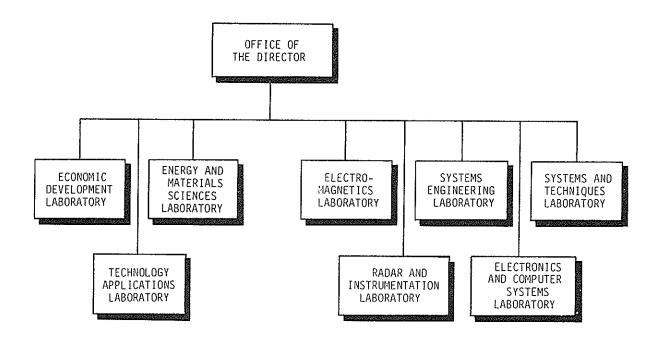
David Clifton Hans O. Spauschus Jerry Birchfield

James C. Wiltse, Jr.

Fred L. Cain
Edward K. Reedy
Robert P. Zimmer
Robert M. Goodman

Source: Director Engineering Experiment Station

### **Engineering Experiment Station**



Source: Director, Engineering Experiment Station