

"An Equal Employment/Education Opportunity Institution."



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INTRODUCTION



Georgia Tech will celebrate its Centennial in 1985. Looking towards its celebration of 100 years, the school is growing to meet the challenge of tomorrow. A continuous flow of bright new students, an expanding campus, and growing research lay the foundation for the South's largest technological university.

Chartered by the General Assembly in 1885, the Georgia School of Technology opened its classroom doors on October 7, 1888. The first October Tech was open, 85 students enrolled, with an overall enrollment of 129 for that year. They pursued degrees in the only major offered, mechanical engineering. Even then, Tech courses were difficult to master, and only 28 members of the original October class earned degrees.

The next few years, degrees were offered in electrical engineering, civil engineering, and textiles. Gradually the curriculum broadened, and today Tech students can choose from over 35 major fields in engineering, science, management, and architecture at the bachelor's, master's and doctorate degree levels.

INTRODUCTION (continued)

On July 1, 1948, the Georgia School of Technology officially became the Georgia Institute of Technology. Tech's first two colleges were also formed at this time, the College of Engineering and the General College. Since then, the General College has become the College of Sciences and Liberal Studies, and the College of Management and the College of Architecture have been added. The College of Architecture is Tech's newest college addition, having been elevated from a school in 1975. The College of Engineering is by far the largest of the four in enrollment.

From an original two-building, five-acre campus, Tech has grown to 128 major buildings on more than 310 acres near downtown Atlanta. Construction was completed recently on a three-building complex for the College of Management and the School of Industrial and Systems Engineering. Also, construction is underway on a new 560-bed dormitory.

The general growth and diversity of Tech is reflected in its student population. Total enrollment for Fall Quarter 1983 was 10,926--8,783 undergraduate students, and 2,143 graduate students. Although the first woman student did not appear on the main campus as a day student until 1952, there are now enrolled 1,889 women undergraduates and 387 women graduate students. Within the total undergraduate student body there are 6,894 men, 990 minority students, and 221 international students. Of the graduate students enrolled, 1,756 are men, 216 are minorities, and 470 are international students.

Tech is proud of the scholastic abilities of its students. Entering students have an average Scholastic Aptitude Test (SAT) score over 300 points higher than the national average. The school has the third largest number of National Merit Scholars and the largest number of National Achievement Scholars of any publicly-supported institution in the United States. National Achievement Scholars, composed solely of black students, represent an honor equivalent to that of National Merit Scholars.

Students who wish to combine industrial work experience with their classroom studies enroll in Tech's "Cooperative Plan". This five-year program has been at Tech since 1912 and has more than 400 participating companies. In Fall Quarter 1983, 2,209 students enrolled in this program.

INTRODUCTION (continued)

Leading the instruction of Tech students are 534 faculty members--520 full-time instructional faculty and 14 part-time. Over eighty-five percent of the faculty hold Ph.D. degrees. In addition, the Engineering Experiment Station employs 580 full-time professional researchers in its five electronics and three resources laboratories. Together, Tech's faculty and staff make up approximately 2,900 of the Institute's community.

Students and faculty have access to a catalog collection of 1,121,000 bibliographic units in the Price Gilbert Memorial Library to help them in their studies and research. Microtexts total 2,100,000; patents, 4,300,000; miscellaneous items, 251,000; serial titles, 1,400; and periodical titles, 6,000. Eighty percent of the total collection is in the scientific or technical fields. Literature searches and other reference services are provided from more than 400 bibliographic and factual data bases. Membership in an eleven library consortium greatly extends available information sources.

Research is an integral part of the education process at Georgia Tech and has grown to \$90 million annually, including research in the academic colleges and the more applied research in the Engineering Experiment Station. Research activities are diversified and are centered in areas where the nation has a vital interest -- defense, energy, health and environment, and productivity.

Students about to graduate from Tech are encouraged to engage the services of the Placement Center. The office is very successful in helping graduates find jobs that best fit their qualifications. In 1982-83, approximately 67 percent of 1,283 Tech graduates surveyed had finalized their postgraduation plans prior to graduation. The June 1983 bachelor degree candidates surveyed in electrical engineering, and nuclear engineering averaged approximately three job offers. Bachelor degree engineering graduates received an average salary offer of \$2,160 per month.

Georgia Tech alumni now total 64,777, many of whom serve in prominent positions. Among these are Jimmy Carter, former U.S. President; Sam Nunn, Georgia Senator; John Portman internationally acclaimed architect; John Young and Richard Truly, astronauts; David D. Garrett, president, Delta Airlines; David S. Lewis, chairman and chief executive officer, General Dynamics; James D. Robinson, chairman, American Express Co.; Malcolm T. Stamper, president, Boeing; and Cecil J. Silas, president and chief operating officer, Phillips Petroleum Co.

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

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 H. Anderson	State-at-Large	1983-1990
Marie Walters Dodd	State-at-Large	1981-1988
Jesse Hill, Jr.	State-at-Large	1978-1985
O. Torbitt Ivey, Jr.	State-at-Large	1977-1984
John E. Skandalakis, Chairman	State-at-Large	1981-1988
Arthur M. Gignilliat, Jr.	First	1983-1990
William T. Divine, Jr.	Second	1982-1989
John H. Robinson, III	Third	1979-1986
Scott Candler, Jr.	Fourth	1977-1984
Elridge W. McMillan	Fifth	1982-1989
Lamar R. Plunkett	Sixth	1978-1985
Lloyd L. Summer, Jr.	Seventh	1980-1987
Thomas H. Frier, Sr.	Eighth	1978-1985
Sidney O. Smith, Jr., Vice-Chairman	Ninth	1980-1987
Julius F. Bishop	Tenth	1979-1986

STAFF OF THE BOARD OF REGENTS

Vernon Crawford, Chancellor

H. Dean Propst, Executive Vice Chancellor

Henry G. Neal, Executive Secretary

Howard Jordan, Jr., Services

Shealy E. McCoy, Fiscal Affairs/Treasurer

Thomas F. McDonald, Student Services

W. Ray Cleere, Academic Affairs

Harry B. O'Rear, Health Affairs

Frank C. Dunham, Facilities

Haskin R. Pounds, Research & Planning

INSTITUTIONAL AND PROFESSIONAL ACCREDITATION

Institutional Accreditation

Georgia Tech is accredited by the Southern Association of Colleges and Schools (eighth year of term). A self-study is under way and reaffirmation is anticipated in 1984.

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
ceramic engineering
chemical engineering
civil engineering
electrical engineering

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

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

ceramic engineering
civil engineering
electrical engineering
environmental engineering
industrial engineering

mechanical engineering
metallurgy
nuclear engineering
textile engineering

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

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

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.

ADMINISTRATION

Office of the President

Joseph M. Pettit

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

Jesse H. Poore

President

Executive Assistant to the President
Special Assistant to the President
Assistant to the President/Administration
Assistant to the President/ Athletics
Assistant to the President/Employee Relations
& Affirmative Action
Assistant to the President/Information Technology (on leave)

Office of the Vice President for Academic Affairs

Henry C. Bourne, Jr.

E. Jo Baker
William J. Lnenicka
Jesse H. Poore
Walter O. Carlson
John M. Gehl
William J. Gamble, Jr.
E. G. Roberts
Frank E. Roper, Jr.

Vice President

Associate Vice President
Associate Vice President/Education Extension
Associate Vice President/Information Technology (on leave)
Associate Vice President for Graduate Studies/Research
Acting Director, Information Technology
Director, Minority Educational Development
Director, Library
Registrar

Office of the Vice President for Research

Thomas E. Stelson

Albert P. Sheppard, Jr.
Jack M. Spurlock

Walter O. Carlson
Jerry L. Birchfield
J. W. Dees
Donald J. Grace
A. Raymond Moore
Robert M. Boyd

Vice President

Associate Vice President
Associate Vice President & Acting Director, Interdisciplinary
Programs/Bioengineering Center
Associate Vice President for Graduate Studies/Research
Director, Advanced Technology Development Center
Director, Contract Administration
Director, Engineering Experiment Station
Director, Office of Research Communications
Director, Radiological Safety

College of Sciences & Liberal Studies

Les A. Karlovitz

Thomas G. Tornabene
Robert A. Pierotti
C. S. Kiang
Raymond E. Miller
William F. Ames
Edward W. Thomas
Edward H. Loveland
Robert C. McMath
Colonel Robert W. Bush
Colonel Richard D. Scharf
A. D. Van Nostrand
Louis J. Zahn
Gregory Colson
Captain Peter G. Frederick
James A. Reedy

Dean

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

ADMINISTRATION (continued)

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W. Denney Freeston, Jr.
Carolyn C. Cannon
Arnold L. Ducoffe
Joseph L. Pentecost
Gary W. Poehlein
John E. Fitzgerald
Demetrius T. Paris
Milton E. Raville
Michael E. Thomas
John A. Brighton
Walter O. Carlson

Albin F. Turbak

Dean
Associate Dean
Director, Special Programs
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 Industrial & Systems Engineering
Director, School of Mechanical Engineering
Acting Director, School of Nuclear Engineering & Health
Physics
Director, School of Textile Engineering

College of Architecture

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

Dean
Associate Dean
Assistant Dean

College of Management

Gerald J. Day
Andrew J. Cooper, III
Marilyn H. McCarty

Acting Dean
Assistant Dean/Administration
Assistant Dean/Undergraduate Programs

Graduate Studies

Walter O. Carlson
James J. Bynum, Jr.

Associate Vice President/Graduate Studies & Research
Dean of Graduate Studies

Office of the Registrar

Frank E. Roper, Jr.
William F. Leslie
Jerry L. Hitt
William T. Lee
James L. Garner

Registrar
Associate Registrar
Director, Admissions
Director, Financial Aid
Director, Registration & Records

Education Extension

William J. Lnenicka
Clifford R. Bragdon
William H. Hitch

Associate Vice President/Education Extension
Director, Continuing Education
Director, Cooperative Division

Information Technology

Jesse H. Poore
John M. Gehl
S. Payne Lenoir, Jr.
Gary G. Watson
Jerry W. Segers

Associate Vice President /Information Technology (on leave)
Acting Director, Information Technology
Acting Director, Computing Services
Director, Information Systems and Applications
Director, Office of Telecommunications & Networking

Engineering Experiment Station

Donald J. Grace

Gerald J. Carey
Howard G. Dean, Jr.
James C. Wiltse, Jr.
Rudolph L. Yobs
David S. Clifton, Jr.
R. G. Shackelford
Fred L. Cain
Hans O. Spauschus
Edward K. Reedy
Samuel T. Alford
Robert P. Zimmer
S. I. Firstman

Director

Associate Director
Associate Director
Associate Director
Associate Director
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
Director, Technology Applications Laboratory

Interdisciplinary Programs

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Frederick A. Rossini

John H. Myers
Robin B. Gray

A. D. Van Nostrand
Satyanadham Atluri
Bernd Kahn
Stephen Antolovich
John E. Husted
Rudolph L. Yobs
Harold E. Smalley
John A. White
John W. Hooper
John L. Russell

Melvin W. Carter
Richard J. L. Martin

Director, Interdisciplinary Programs/Bioengineering Center
Associate Director, Interdisciplinary Programs/Director,
Technology Policy and Assessment Center
Director, Center for Architectural Conservation
Director, Center for Excellence in Rotary Wing Aircraft
Technology
Director, Center for Research in Writing
Director, Computational Mechanics Center
Director, Environmental Resources Center
Director, Fracture & Fatigue Research Laboratory
Director, Georgia Minerals & Mining Research Institute
Director, Georgia Productivity Center
Director, Health Systems Research Center
Director, Material Handling Research Center
Director, Micro-Electronics Research Center
Director, Nuclear Research Center/Center for Engineering
in Cancer Therapy
Director, Radiological Protection Center
Director, Rehabilitation Technology Center

Office of Contract Administration

J. W. Dees

Gerald R. Henry

Director

Associate Director

Business & Finance

Richard Fuller, Jr.

Clyde D. Robbins
Jon M. Gearhart

C. Evan Crosby
Frank A. Gleason, Jr.
Roger E. Wehrle
Jack Vickery
G. Les Petherick
H. T. Marshall
Howard J. Fretwell, Jr.
James L. Priest

Vice President

Associate Vice President/Facilities
Associate Vice President/Finance and Acting Director,
Purchasing & Property Control
Associate Vice President/Budgets
Assistant to the Vice President
Director, Auxiliary Enterprises
Director, Campus Safety Services
Director, Environmental Safety
Director, Internal Auditing
Director, Personnel
Director, Physical Plant

ADMINISTRATION (continued)

Campus Planning

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Vice President

Institute Relations & Development

Warren Heemann

Vice President

John P. Culver

Assistant Vice President

Dell B. Sikes

Assistant Vice President

Robert H. Rice

Executive Director, Alumni Association

Mary E. Stoffregen

Director, Accounting & Administration

Catherine C. Inabnit

Director, Constituency Research

James B. Osborne

Director, Corporate Relations/Placement

Mary K. Murphy

Director, Foundation Relations

Charles E. Harmon

Director, News Bureau

Robert N. Leitch

Director, Planned Giving

Thomas L. Vitale

Director, Publications

Barbara B. Rose

Director, Development

Dean of Students

James E. Dull

Dean

Edwin P. Kohler

Associate Dean

Barry D. Birkhead

Assistant Dean/Fraternity Affairs

W. Miller Templeton

Assistant Dean/International Students

Carole E. Moore

Assistant Dean/Women's Activities

James A. Strickland

Director, Counseling

Gary J. Schwarzmueller

Director, Housing

M. Jo Benson-Ivey

Director, New Student & Parent Programs

Roger E. Wehrle

Director, Student Center

J. Nicholas Gordon

Director, Student Health

Library

E. G. Roberts

Director

Helen R. Citron

Associate Director

Advanced Technology Development Center

Jerry L. Birchfield

Director

H. Wayne Hodges

Associate Director

UNDERGRADUATE DEGREES OFFERED

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

Bachelor of Aerospace Engineering
Bachelor of Ceramic Engineering
Bachelor of Chemical Engineering
Bachelor of Civil Engineering
Bachelor of Electrical Engineering
Bachelor of Engineering Science and Mechanics
Bachelor of Industrial Engineering
Bachelor of Mechanical Engineering
Bachelor of Nuclear Engineering
Bachelor of Textile Engineering
Bachelor of Science
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 Information and Computer Science
Bachelor of Science in Industrial Design
Bachelor of Science in Management
Bachelor of Science in Management Science
Bachelor of Science in Physics
Bachelor of Science in Textile Chemistry
Bachelor of Science in Textiles

GRADUATE DEGREES OFFERED

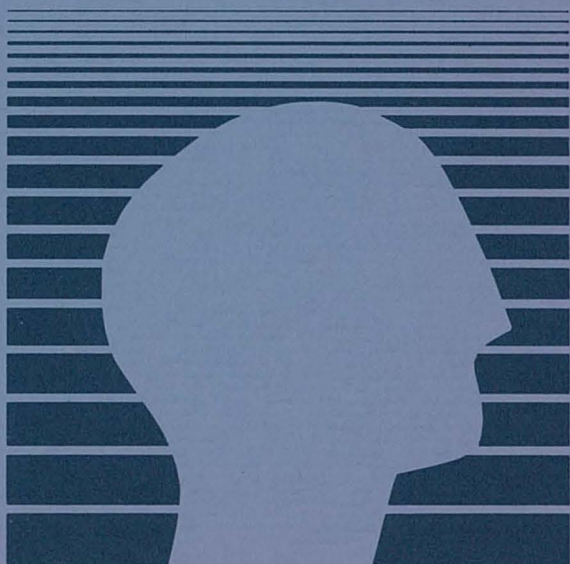
Programs of study and research leading to the Master of Science degree are offered in the following disciplines:

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

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

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

STUDENT INFORMATION



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 2,973 males and 1,223 females, and apartments are provided for 300 married students. The Residence Hall Association (RHA) provides numerous social, academic, and recreational activities. The Off-Campus Housing Office provides information to approximately 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 six 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 mission of the Georgia Tech Campus Police is to 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 areas

STUDENT SERVICES (continued)

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 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. The Student center also offers a full-service Post Office, a hair styling salon and a quick copy center.

Fraternities and Sororities. Located on the campus are thirty-two social fraternities, with total membership of 1,800 and six national "Greek" sororities, with a membership of 350 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.



Source: Dean of Students

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 is made up of the following departments: Sports Medicine, Facilities, Football, Basketball, Non-Revenue Sports, Business Office, Ticket Office, Academic Advisor, and Development and Athletic Relations, which includes the Alexander-Tharpe Fund (fund raising), Sports Promotion and Sports Information offices.

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.

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 Rogers, 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).

ATHLETIC ASSOCIATION (continued)

The Georgia Tech Athletic program includes 15 intercollegiate athletic teams (11 men's and 4 women's). During the 1982-83 school year 327 student-athletes competed in these sports.

<u>Team</u>	<u>Number of Participants</u>
Baseball	36
Basketball (men)	11
Basketball (women)	11
Cross Country	7
Football	100
Golf	15
Gymnastics	15
Softball (women)	15
Swimming	19
Tennis (men)	9
Tennis (women)	10
Indoor Track	20
Outdoor Track	30
Volleyball (women)	10
Wrestling	19

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	185
Pep Band	47
Reckettes	20
Cheerleaders	15
Solid Gold	30
Student Trainers	8
Student Managers	11

FRESHMAN PROFILE

<u>PERCENTILE</u>	<u>HIGH SCHOOL AVERAGE</u>	<u>SAT VERBAL</u>	<u>SAT MATHEMATICS</u>	<u>SAT TOTAL</u>
FALL 1983				
90	4.0	641	735	1,376
80	3.9	596	704	1,300
70	3.8	567	682	1,249
60	3.7	548	662	1,210
50	3.6	526	638	1,164
40	3.5	507	619	1,126
30	3.4	487	597	1,084
20	3.2	464	569	1,033
10	3.0	428	540	968
AVERAGE	3.5	524	632	1,156

FALL 1979				
90	4.0	657	731	1,388
80	3.9	612	700	1,312
70	3.8	583	674	1,257
60	3.7	560	654	1,214
50	3.6	538	637	1,175
40	3.5	517	614	1,131
30	3.4	493	593	1,086
20	3.2	464	570	1,034
10	3.0	430	532	962
AVERAGE	3.5	533	628	1,161

Source: Registrar

FINANCIAL AID AND SCHOLARSHIPS

Private industry, business, 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. Although there were declines in the federal programs of assistance, dramatic growth was experienced in the Institutional scholarship volume for the 1982-83 award year. Scholarships, including Georgia Tech sponsored National Merit and National Achievement awards, grew from \$1,145,000 to \$1,390,000. The growth of almost a quarter of a million dollars represents a 21% increase. Overall financial aid to our students decreased approximately \$65,000 for a 0.7% reduction.

Awards through federal allocations or through private loans controlled by federal regulations comprise approximately two-thirds of our student financial assistance. Awards from these funds are restricted to students who have demonstrated need of assistance beyond family resources.

Increased scholarship funding has offset, to a large degree, the losses in federal programs of assistance. Scholarships typically are awarded based on outstanding academic achievement and financial need.

For the 1982-83 academic year, Georgia Tech again enrolled over 400 Merit Scholars and approximately 90 Achievement Scholars. These students are selected through national competition based primarily on the candidates' 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 1982-83 school year, Georgia Tech ranked 9th in the nation in the National Merit enrollment and 5th in the National Achievement standing. The Institute maintained its number one position among public schools for the number of Achievement Scholars enrolled. On a per capita basis Georgia Tech continues to rank number one among public schools in the Merit Scholarship Program.

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 to attract them to Georgia Tech and to induce 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 1983-84 academic year there are forty-seven students in the program.

Source: Director, Financial Aid

SUMMARY OF MAJOR PROGRAMS OF STUDENT FINANCIAL ASSISTANCE

	1981-82		1982-83	
	<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	1,067	\$520,673	1,085	\$469,458
Supplementary Ed. Op. Grants	486	243,267	515	240,038
College Work-Study Program	302	298,530	171	167,207
Basic Ed. Opportunity Grants	<u>1,586</u>	<u>1,276,693</u>	<u>1,262</u>	<u>1,189,779</u>
SUBTOTAL Federal Funds	<u>3,441</u>	<u>\$2,339,163</u>	<u>3,033</u>	<u>2,066,482</u>
Georgia Tech National Merit	332	156,124	308	163,976
Georgia Tech National Achievement	<u>55</u>	<u>30,649</u>	<u>45</u>	<u>42,078</u>
SUBTOTAL Merit/Achievement	<u>387</u>	<u>\$186,773</u>	<u>353</u>	<u>206,054</u>
Institutional Scholarships	1,200	958,584	1,421	1,183,971
Short Term Loans	1,488	722,775	1,486	922,654
Emergency Loans	<u>38</u>	<u>2,791</u>	<u>37</u>	<u>3,567</u>
SUBTOTAL GEORGIA TECH AID	<u>6,554</u>	<u>4,210,086</u>	<u>6,330</u>	<u>4,382,728</u>
<u>OUTSIDE AWARDS</u>				
Georgia Incentive Scholarships	518	\$137,075	605	179,500
Miscellaneous Scholarships	626	575,727	650	625,243
Miscellaneous Grants	73	40,080	54	32,889
Georgia Guaranteed Loans	1,369	1,035,594	947	1,991,425
Guaranteed Loans - Other States	1,857	3,418,729	985	2,148,289
Miscellaneous Loans	<u>28</u>	<u>43,410</u>	<u>24</u>	<u>36,094</u>
SUBTOTAL OUTSIDE AID	<u>4,471</u>	<u>\$5,250,615</u>	<u>3,265</u>	<u>5,013,440</u>
TOTAL	<u>11,025</u>	<u>\$9,460,701</u>	<u>9,595</u>	<u>9,396,168</u>

Source: Director, Financial Aid

ROTC SCHOLARSHIPS: 1982-83 Academic Year

ROTC Scholarships pay tuition, academic fees, and subsistence. Based on current rates the scholarship is worth \$2089 per year to Georgia residents and \$4177 to non-residents.

Average Number of Students on Scholarships
458

Total Amount of Scholarships
\$1,662,506

Source: Commanding Officer Navy ROTC

NATIONAL MERIT AND ACHIEVEMENT SCHOLARS

National Merit Scholars

Numerical Rank	Institute	Type	1978/ 1979	1979/ 1980	1980/ 1981	1981/ 1982	1982/ 1983
1	Harvard/Radcliffe College	Private	767	810	843	905	987
2	Princeton University	Private	375	406	435	484	584
3	Rice University	Private	497	498	492	505	554
4	Yale University	Private	411	430	448	479	540
5	Washington University	Private	410	504	553	535	477
6	Texas A & M University	Public	171	194	235	336	445
7	M.I.T.	Private	327	349	375	376	436
8	University of Texas	Public	121	190	280	361	413
9	Georgia Tech	Public	371	398	393	404	399
10	Northwestern University	Private	340	380	361	346	397
11	Michigan State University	Public	429	417	397	373	372
12	Stanford University	Private	316	312	315	337	356
13	University of Florida	Public	150	159	191	232	290
14	Carleton College	Private	202	221	220	257	279
15	Ohio State University	Public	241	253	270	281	277
16	University of Chicago	Private	219	200	206	240	275
17	Iowa State University	Public	88	155	192	245	226
18	University of Michigan	Public	161	174	196	218	217
19	Duke University	Private	174	188	186	185	203
20	Baylor University	Private	103	141	137	182	196

National Achievement Scholars

Numerical Rank	Institute	Total Scholars
1	Harvard/Radcliffe College	242
2	Stanford University	102
3	M.I.T.	100
4	Princeton University	99
5	Georgia Tech	93
6	Yale University	76
7	Northwestern University	68
8	Brown University	57
9	Duke University	50
10	University of Michigan	47

Source: Director, Financial Aid

PRESIDENT'S SCHOLARSHIP PROGRAM



State of Residence

	<u>Female</u>	<u>Male</u>	<u>Total</u>	<u>Mean HSA</u>	<u>Mean SAT-V</u>	<u>Mean SAT-M</u>
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1983-84 Scholars

Alabama	0	2	2	4.00	730	745
Florida	0	1	1	4.00	700	720
Georgia	7	15	22	3.95	686	725
South Carolina	<u>0</u>	<u>2</u>	<u>2</u>	<u>3.85</u>	<u>740</u>	<u>705</u>
Total/Average	7	20	27	3.94	694	725

1982-83 Scholars

Georgia	3	8	11	3.90	684	737
North Carolina	<u>1</u>	<u>2</u>	<u>3</u>	<u>3.97</u>	<u>670</u>	<u>753</u>
Total/Average	4	10	14	3.91	681	741

1981-82 Scholars

Georgia	1	5	6	3.98	712	753
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**PROGRAM TOTAL/
AVERAGE**

	12	35	47	3.94	692	733
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Source: President's Scholarship Committee

ROTC

ARMY ROTC

The program for Army ROTC was established at Georgia Tech in June, 1916. Today nearly 80 students representing each of Tech's major schools and disciplines participate in a military science curriculum that integrates the classroom with adventure training experiences. In addition to its regular four-year scholarship program, Army ROTC provides two- and three-year competitive scholarships to Tech students, whether previously enrolled in ROTC or not. These scholarships pay tuition and all academic related fees plus \$100 per month while the student is enrolled in military science. Forty-six of today's participants are under full tuition Army scholarships.

Army ROTC is available for both men and women. 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 as well as provides an introduction to principles of management and leadership. The Advanced curriculum focuses on leadership in a particular environment, 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 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.

NAVY ROTC

The NROTC Unit at Georgia Tech is one of the original six 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 from 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); virtually all will earn a scholarship prior to entry into the junior year. Standard two and four year programs are offered but entry into the NROTC College Program can be made anytime prior to the junior year. Successful completion leads to a 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, Nuclear Power, Submarine and Surface Line as well as Marine Corps ground or aviation.

AIR FORCE ROTC

An Army Air Force ROTC unit was established at Georgia Tech in September, 1946. After the Air Force gained its separate and independent status under the National Security Act of 1947, the unit was absorbed into the United States Air Force in 1948. The present Department of Air Force Aerospace Studies was established in 1950.

All phases of Air Force ROTC are open to men and women. Students enrolled in the four-year program may compete for four-, three-, or two-year scholarships. The Air Force ROTC program at Georgia Tech consists of the General Military and Professional Officer courses. The General Military Course covers a two-year period normally taken during the freshmen and sophomore years. The course covers two main themes: the development of air power and the contemporary Air Force in the context of U. S. military organization. The Professional Officer Course also is taken over a two-year period, normally during the student's junior and senior years. The curriculum covers Air Force management, leadership, and American defense policy.

Students from Agnes Scott, Southern Tech, Georgia State, Morehouse, Clark, Morris Brown, and Spelman may take Air Force ROTC at Georgia Tech.

In September, 1982, Georgia Tech enrollment in Air Force ROTC was 320 students, of which 196 had full scholarships. In fiscal year 1982, 46 students were commissioned as 2nd Lieutenants in the United States Air Force.

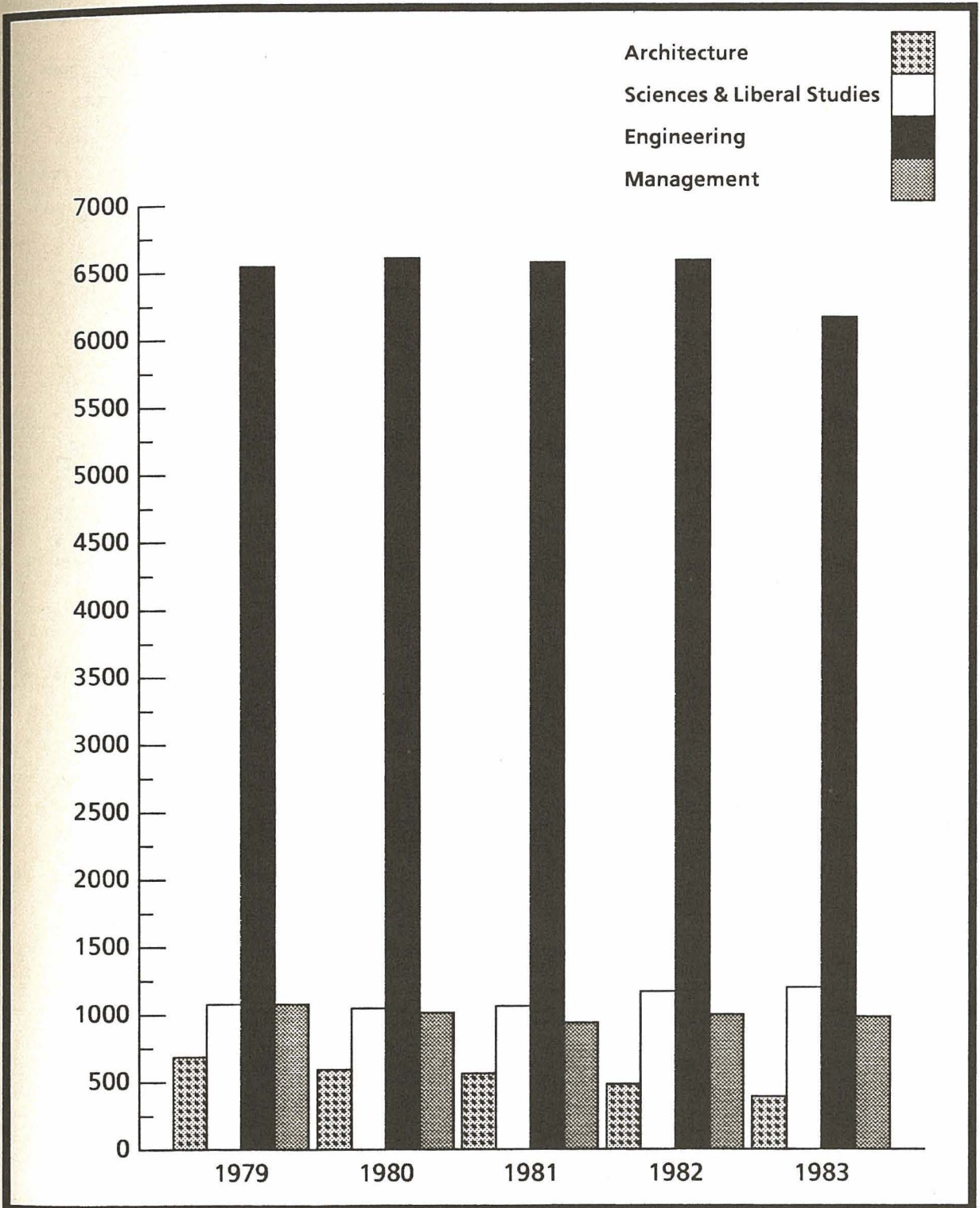
Sources: Commanding Officer, Army ROTC
Commanding Officer, Navy ROTC
Commanding Officer, Air Force ROTC

FALL QUARTER UNDERGRADUATE ENROLLMENT BY COLLEGE: 1979-1983

	1979		1980		1981		1982		1983	
	<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	538	150	454	141	429	136	366	129	299	102
ENGINEERING										
Aerospace	396	47	409	54	488	64	557	59	572	67
Ceramic	30	13	25	7	34	9	39	15	29	14
Chemical	682	239	667	238	633	217	593	225	504	205
Civil	572	97	532	92	461	96	389	82	350	75
Electrical	1,577	163	1,619	188	1,597	190	1,754	228	1,639	235
Engineering Science & Mechanics	68	10	65	17	68	22	56	21	68	17
Health Systems	35	58	34	49	26	39	26	42	12	22
Industrial and Systems	544	201	546	234	506	268	486	269	489	249
Mechanical	1,155	106	1,190	119	1,204	118	1,166	136	986	110
Nuclear & Health Physics	159	16	121	13	122	12	115	18	112	19
Textile	75	66	64	46	51	36	39	24	53	36
Undecided Engineering	191	57	234	57	241	78	193	71	248	64
TOTAL ENGINEERING	5,483	1,073	5,506	1,114	5,431	1,149	5,413	1,190	5,062	1,113
MANAGEMENT										
TOTAL MANAGEMENT	787	306	718	303	657	288	692	322	700	291
SCIENCES & LIBERAL STUDIES (COSALS)										
Applied Biology	96	60	70	41	58	42	41	29	48	45
Chemistry	82	22	63	18	53	22	40	32	49	27
Geophysical Sciences	0	0	1	0	0	0	0	0	0	0
Information & Computer Science	280	141	339	153	414	159	494	205	460	191
Mathematics	37	26	41	23	26	19	25	15	57	25
Physics	159	18	154	17	135	16	113	23	121	22
Psychology	15	24	14	25	10	21	9	20	15	24
Undecided General College	92	40	68	26	66	31	82	45	83	49
TOTAL COSALS	761	331	750	303	762	310	804	369	833	383
INSTITUTE SUBTOTAL	7,569	1,860	7,428	1,861	7,279	1,883	7,275	2,010	6,894	1,889
INSTITUTE TOTAL	9,429		9,289		9,162		9,285		8,783	

Source: Registrar

FALL QUARTER UNDERGRADUATE ENROLLMENT BY COLLEGE:
1979-83 (continued)



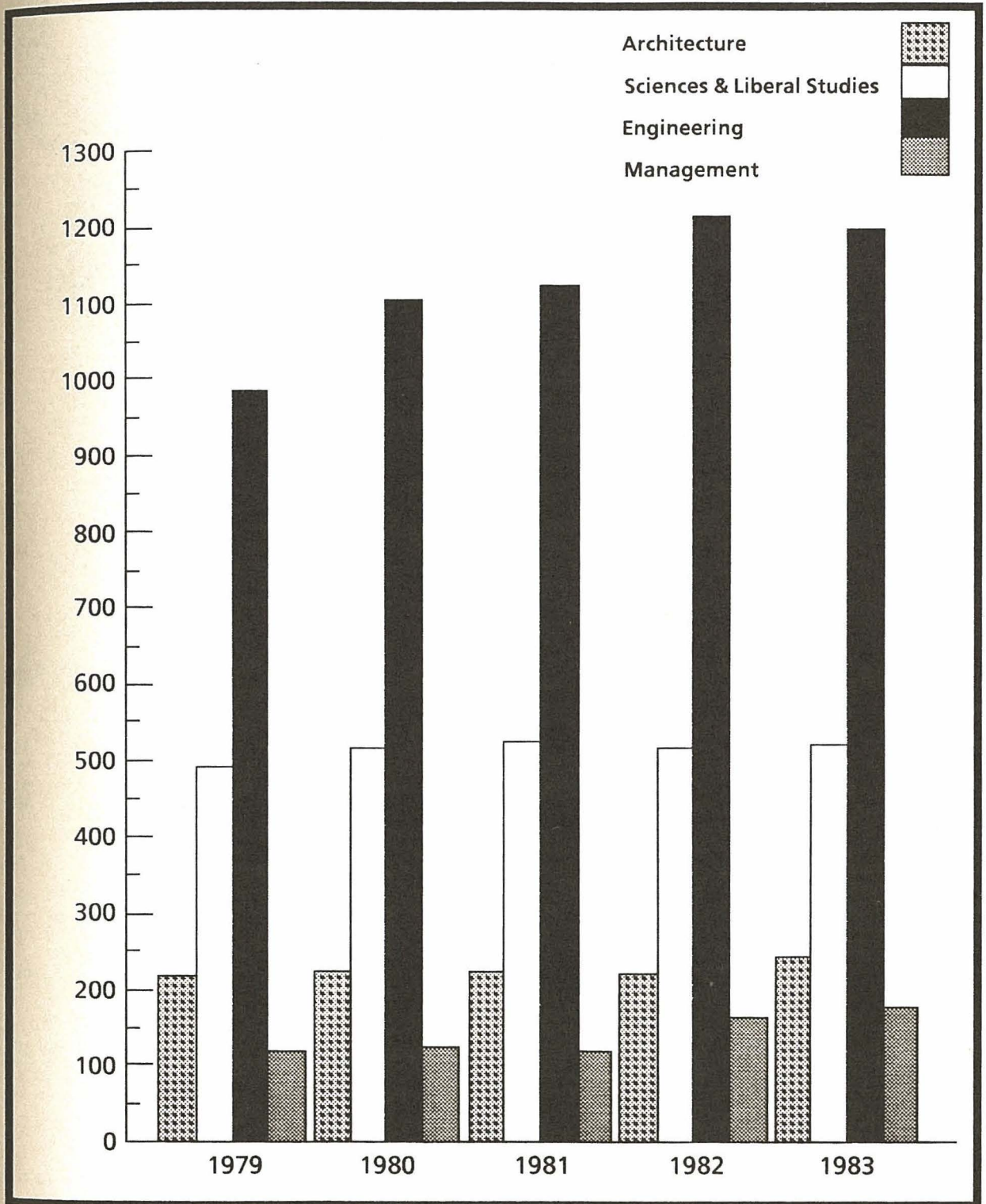
FALL QUARTER GRADUATE ENROLLMENT BY COLLEGE: 1979-1983

	1979		1980		1981		1982		1983	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
ARCHITECTURE										
TOTAL ARCHITECTURE	168	50	172	53	162	64	164	56	171	73
ENGINEERING										
Aerospace	60	1	62	2	66	3	76	9	84	8
Ceramic	19	3	18	4	14	3	12	4	11	3
Chemical	85	13	75	10	90	15	93	19	97	21
Civil	166	17	156	13	147	20	147	20	147	13
Electrical	235	14	353	25	350	19	356	61	360	31
Engineering Science & Mechanics	23	1	23	3	18	4	24	4	19	5
Health Systems	14	14	12	12	11	7	14	8	9	7
Industrial and Systems	107	22	119	24	119	22	117	19	126	23
Mechanical	111	5	106	5	120	5	116	9	146	5
Nuclear & Health Physics	41	7	45	13	57	9	60	18	56	8
Textile	22	8	15	9	18	8	16	11	16	5
TOTAL ENGINEERING	883	105	984	120	1,010	115	1,031	182	1,071	129
MANAGEMENT										
TOTAL MANAGEMENT	94	27	93	34	91	31	116	47	123	54
SCIENCES & LIBERAL STUDIES (COSALS)										
Applied Biology	13	6	11	8	12	7	16	15	15	10
Chemistry	70	15	69	22	63	27	60	31	60	35
Geophysical Sciences	52	8	57	11	54	11	42	12	45	10
Information & Computer Science	154	47	165	52	160	55	164	43	171	39
Mathematics	20	6	18	4	16	4	21	4	23	8
Physics	56	2	62	1	63	8	54	4	48	8
Psychology	26	14	23	13	22	15	24	15	23	18
Other*	1	0	0	0	6	1	8	2	6	3
TOTAL COSALS	392	98	405	111	396	128	389	126	391	131
INSTITUTE SUBTOTAL	1,537	280	1,654	318	1,659	338	1,700	411	1,756	387
INSTITUTE TOTAL	1,817		1,972		1,997		2,111		2,143	

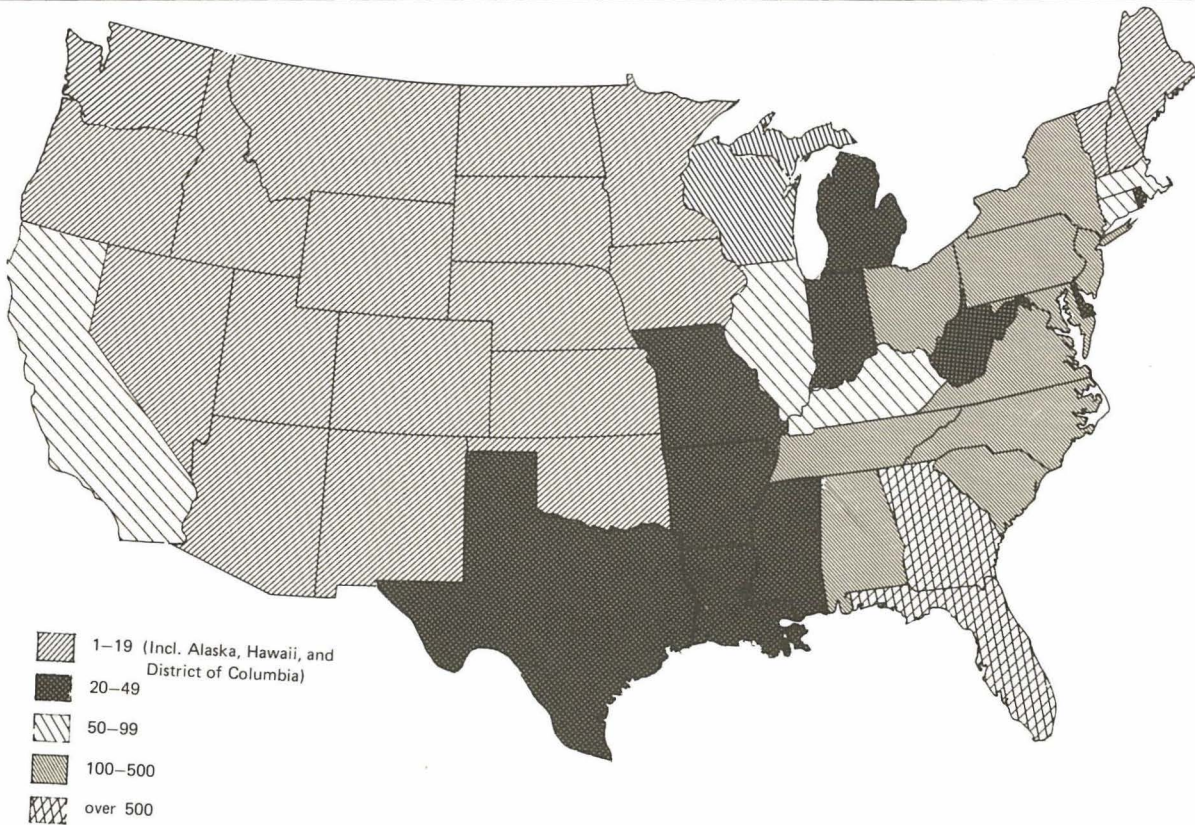
*Includes Technology and Science Policy (TASP) and Undecided General College (UGC) students.

Source: Registrar

FALL QUARTER GRADUATE ENROLLMENT BY COLLEGE:
1979-83 (continued)



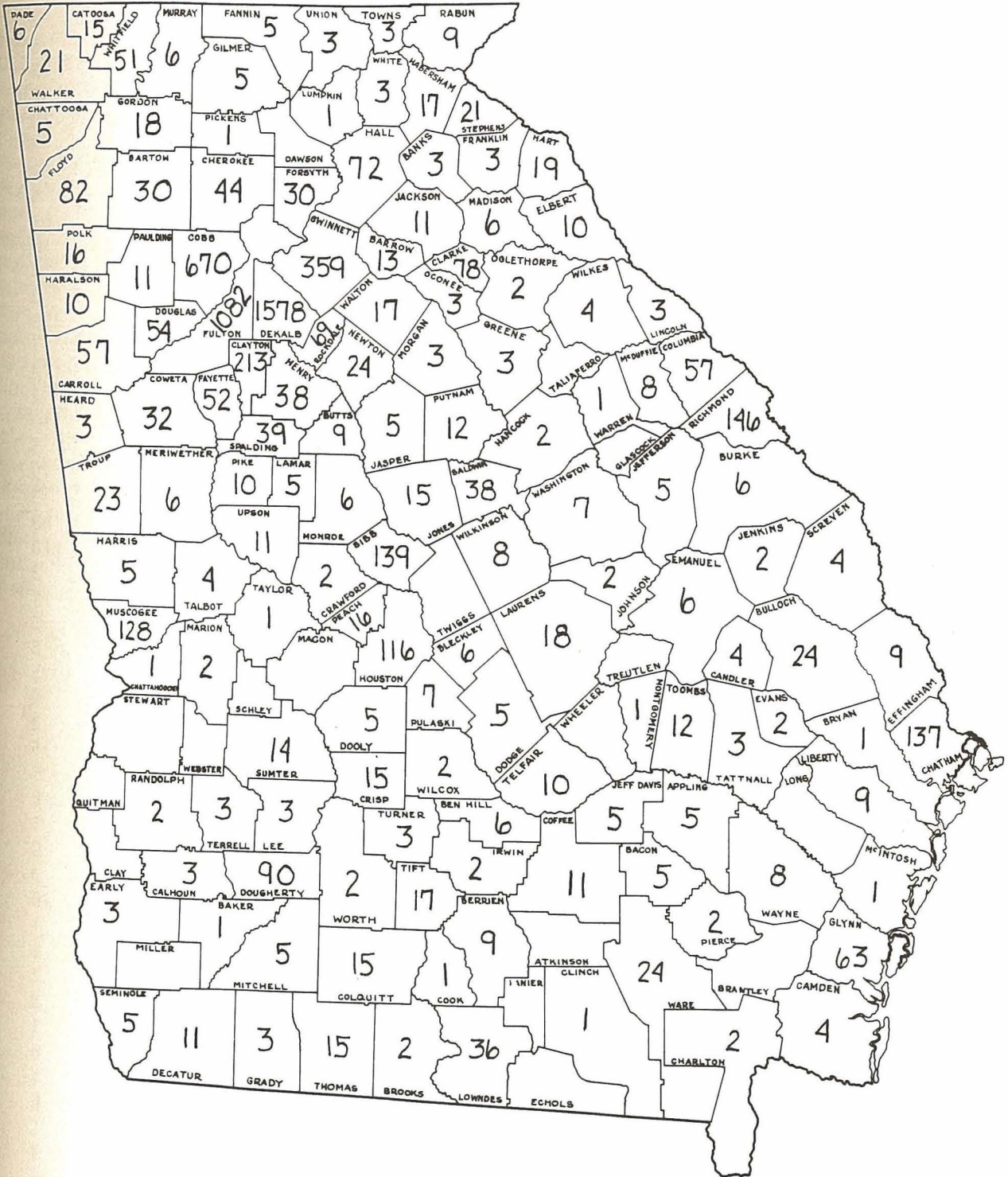
ENROLLMENT BY STATES: FALL QUARTER 1983



	<u>Undergrad</u>	<u>Grad</u>	<u>Total</u>		<u>Undergrad</u>	<u>Grad</u>	<u>Total</u>
Alabama	169	36	205	Nebraska	1	4	5
Alaska	5	2	7	Nevada	6	1	7
Arizona	4	3	7	New Hampshire	10	1	11
Arkansas	15	10	25	New Jersey	168	29	197
California	34	30	64	New Mexico	4	5	9
Colorado	8	7	15	New York	258	52	310
Connecticut	55	10	65	North Carolina	153	38	191
Delaware	11	8	19	North Dakota	2	1	3
District of Columbia	7	4	11	Ohio	114	20	134
Florida	769	126	895	Oklahoma	8	4	12
Georgia	5,514	879	6,393	Oregon	2	1	3
Hawaii	5	0	5	Pennsylvania	115	29	144
Idaho	0	0	0	Rhode Island	12	1	13
Illinois	40	31	71	South Carolina	165	34	199
Indiana	14	11	25	South Dakota	0	1	1
Iowa	4	3	7	Tennessee	165	43	208
Kansas	4	4	8	Texas	26	21	47
Kentucky	80	10	90	Utah	2	1	3
Louisiana	31	17	48	Vermont	9	0	9
Maine	11	0	11	Virginia	125	37	162
Maryland	163	22	185	Washington	10	5	15
Massachusetts	60	16	76	West Virginia	15	5	20
Michigan	40	19	59	Wisconsin	4	5	9
Minnesota	9	4	13	Wyoming	2	2	4
Mississippi	24	3	27	Other U.S. Territories & Possessions	53	31	84
Missouri	24	9	33	TOTAL	8,530	1,636	10,166
Montana	1	1	2				

Source: Registrar

ENROLLMENT BY GEORGIA COUNTIES: FALL QUARTER 1983



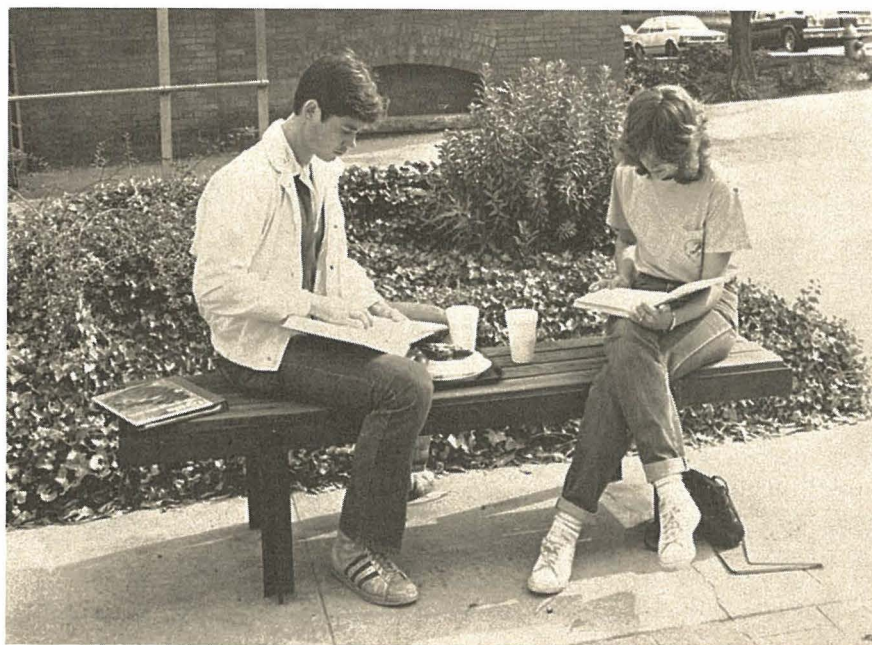
Source: Registrar

ENROLLMENT BY GEORGIA COUNTIES: FALL QUARTER 1983

	<u>Undergrad</u>	<u>Grad</u>	<u>Total</u>		<u>Undergrad</u>	<u>Grad</u>	<u>Total</u>
Appling	3	2	5	Evans	2	0	2
Bacon	5	0	5	Fannin	4	1	5
Baker	1	0	1	Fayette	49	3	52
Baldwin	36	2	38	Floyd	74	8	82
Banks	3	0	3	Forsyth	27	3	30
Barrow	12	1	13	Franklin	2	1	3
Bartow	28	2	30	Fulton	842	240	1,082
Ben Hill	6	0	6	Gilmer	5	0	5
Berrien	9	0	9	Glynn	55	8	63
Bibb	127	12	139	Gordon	16	2	18
Bleckley	5	1	6	Grady	3	0	3
Brooks	2	0	2	Greene	2	1	3
Bryan	1	0	1	Gwinnett	314	45	359
Bulloch	22	2	24	Habersham	16	1	17
Burke	6	0	6	Hall	68	4	72
Butts	7	2	9	Hancock	2	0	2
Calhoun	3	0	3	Haralson	10	0	10
Camden	4	0	4	Harris	5	0	5
Candler	4	0	4	Hart	19	0	19
Carroll	47	10	57	Heard	3	0	3
Catoosa	14	1	15	Henry	37	1	38
Charlton	1	1	2	Houston	111	5	116
Chatham	119	18	137	Irwin	2	0	2
Chattahoochee	1	0	1	Jackson	9	2	11
Chattooga	5	0	5	Jasper	5	0	5
Cherokee	38	6	44	Jeff Davis	5	0	5
Clarke	65	13	78	Jefferson	4	1	5
Clayton	199	14	213	Jenkins	2	0	2
Clinch	1	0	1	Johnson	2	0	2
Cobb	554	116	670	Jones	14	1	15
Coffee	11	0	11	Lamar	4	1	5
Colquitt	15	0	15	Laurens	18	0	18
Columbia	54	3	57	Lee	3	0	3
Cook	1	0	1	Liberty	9	0	9
Coweta	32	0	32	Lincoln	3	0	3
Crawford	2	0	2	Lowndes	33	3	36
Crisp	13	2	15	Lumpkin	1	0	1
Dade	5	1	6	Madison	6	0	6
Decatur	11	0	11	Marion	2	0	2
DeKalb	1,333	245	1,578	McDuffie	7	1	8
Dodge	5	0	5	McIntosh	0	1	1
Dooly	5	0	5	Meriwether	6	0	6
Dougherty	83	7	90	Mitchell	5	0	5
Douglas	51	3	54	Monroe	6	0	6
Early	3	0	3	Montgomery	1	0	1
Effingham	8	1	9	Morgan	3	0	3
Elbert	9	1	10	Murray	6	0	6
Emanuel	6	0	6	Muscookee	120	8	128

ENROLLMENT BY GEORGIA COUNTIES: FALL QUARTER 1983 (continued)

	<u>Undergrad</u>	<u>Grad</u>	<u>Total</u>		<u>Undergrad</u>	<u>Grad</u>	<u>Total</u>
Newton	21	3	24	Telfair	9	1	10
Oconee	2	1	3	Terrell	3	0	3
Oglethorpe	2	0	2	Thomas	14	1	15
Paulding	11	0	11	Tift	16	1	17
Peach	15	1	16	Toombs	11	1	12
Pickens	1	0	1	Towns	2	1	3
Pierce	2	0	2	Troup	16	7	23
Pike	9	1	10	Turner	3	0	3
Polk	13	3	16	Union	2	1	3
Pulaski	6	1	7	Upson	10	1	11
Putnam	12	0	12	Walker	20	1	21
Rabun	9	0	9	Walton	15	2	17
Randolph	2	0	2	Ware	23	1	24
Richmond	120	26	146	Warren	1	0	1
Rockdale	65	4	69	Washington	7	0	7
Screven	3	1	4	Wayne	6	2	8
Seminole	5	0	5	White	3	0	3
Spalding	37	2	39	Whitfield	50	1	51
Stephens	18	3	21	Wilcox	1	1	2
Sumter	12	2	14	Wilkes	3	1	4
Talbot	4	0	4	Wilkinson	8	0	8
Tattnall	3	0	3	Worth	2	0	2
Taylor	1	0	1				
				TOTAL	5,514	879	6,393



Source: Registrar

ENROLLMENT BY FOREIGN COUNTRIES: FALL QUARTER 1983

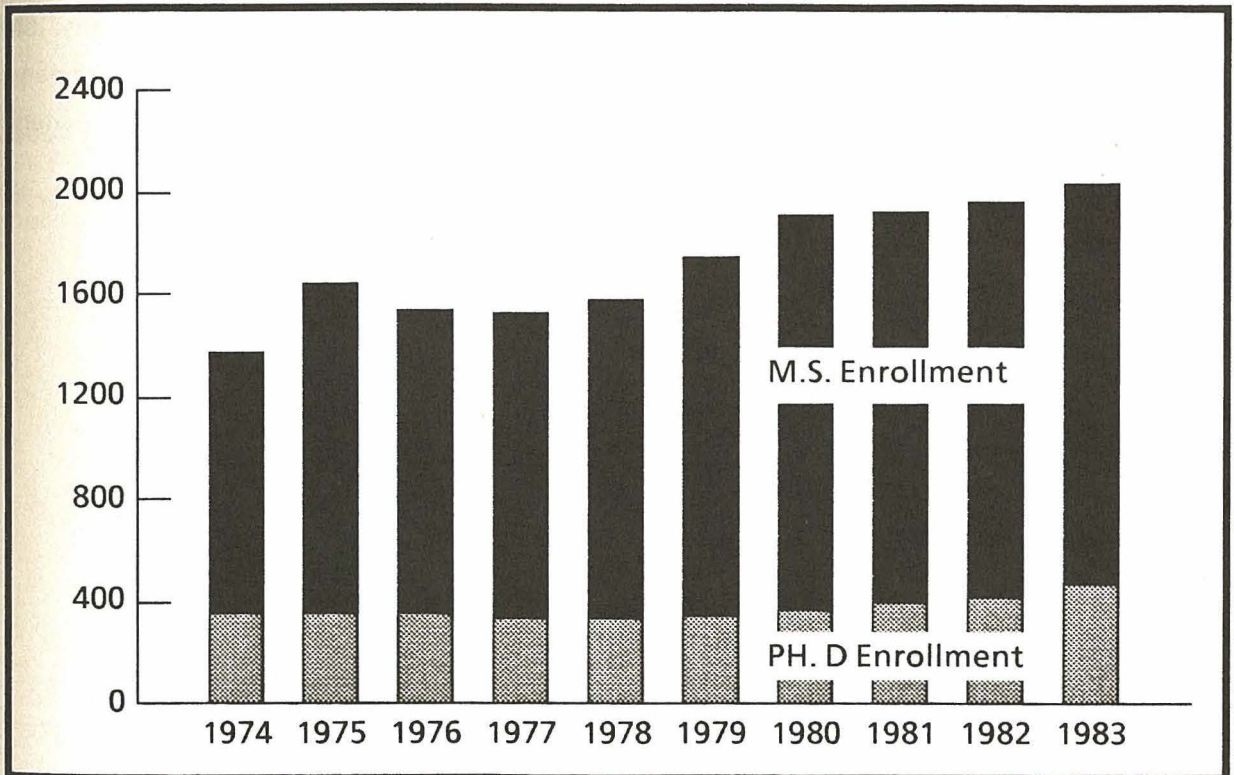
	<u>Undergrad</u>	<u>Grad</u>	<u>Total</u>		<u>Undegrad</u>	<u>Grad</u>	<u>Total</u>
Algeria	0	10	10	Italy	1	5	6
Argentina	1	1	2	Japan	3	7	10
Australia	3	1	4	Jordan	1	3	4
Bangladesh	1	1	2	Korea	12	40	52
Belgium	1	0	1	Kuwait	0	1	1
Bermuda	1	2	3	Lebanon	16	15	31
Bolivia	0	3	3	Malawi	1	1	2
Brazil	3	4	7	Malaysia	2	1	3
British Guinea	0	1	1	Mexico	1	10	11
Cameroon	0	1	1	Morocco	1	1	2
Canada	6	3	9	Netherlands	2	2	4
Ceylon (Sri Lanka)	0	2	2	Netherlands Antilles	1	0	1
Chile	1	3	4	Nicaragua	6	0	6
China (Taiwan)	10	73	83	Nigeria	0	7	7
China (People's Republic)	0	21	21	Norway	1	0	1
Colombia	20	20	40	Oman	0	1	1
Costa Rica	4	3	7	Pakistan	4	6	10
Cuba	3	0	3	Panama	10	1	11
Cyprus	4	3	7	Paraguay	1	0	1
Denmark	1	0	1	Peru	5	9	14
Dominican Republic	2	3	5	Philippines	0	6	6
Ecuador	11	6	17	Poland	0	1	1
Egypt (United Arab Republic)	1	9	10	Portugal	0	2	2
El Salvador	3	2	5	Saudia Arabia	0	2	2
England	4	3	7	Sierra Leone	0	1	1
Finland	2	1	3	Singapore	2	0	2
France	1	12	13	South Africa	0	3	3
Gambia	1	0	1	Soviet Union	2	0	2
Germany (East)	0	2	2	Spain	1	0	1
Germany (West)	11	8	19	Sweden	0	1	1
Ghana	1	3	4	Switzerland	2	2	4
Greece	7	30	37	Syria	1	3	4
Guatemala	2	0	2	Thailand	3	5	8
Haiti	1	0	1	Trinidad	2	2	4
Honduras	12	2	14	Tunisia	0	1	1
Hong Kong	3	7	10	Turkey	1	10	11
Hungary	0	1	1	United Arab Emirates	1	1	2
Iceland	0	2	2	Venezuela	15	20	35
India	5	44	49	Vietnam	5	3	8
Indonesia	2	2	4	Yemen	0	1	1
Iran	16	26	42	Yugoslavia	0	1	1
Iraq	0	4	4	Zambia	1	1	2
Ireland	0	2	2	Zimbabwe	0	1	1
Israel	1	7	8				
Jamaica	4	2	6	TOTAL	253	507	760

Source: Registrar

FALL QUARTER GRADUATE ENROLLMENT BY DEGREE PROGRAM: 1974-1983*

	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
1974	24	0	679	197	100	5	220	161	1023	363
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

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



Source: Registrar

COOPERATIVE PLAN

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. 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.

One of the oldest employers of cooperative plan students is the Georgia Power Company. Among the more than 400 participating companies are the Georgia Tech Engineering Experiment Station, E.I. 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 Five-Year Comparison

	<u>1978-1979</u>	<u>1982-1983</u>	<u>Percent Increase</u>
Cumulative Enrollment	1,894	2,483	31%
Student Graduates	178	354	50%

Number of Students by Major: Fall Quarter 1983

Aerospace Engineering	114	Industrial & Systems Engineering	194
Ceramic Engineering	9	Information & Computer Science	169
Chemical Engineering	236	Management	95
Chemistry	10	Mathematics	8
Civil Engineering	92	Mechanical Engineering	397
Electrical Engineering	789	Nuclear Engineering	39
Engineering Science & Mechanics	19	Physics	24
		Textile Engineering	14
		Total	2,209

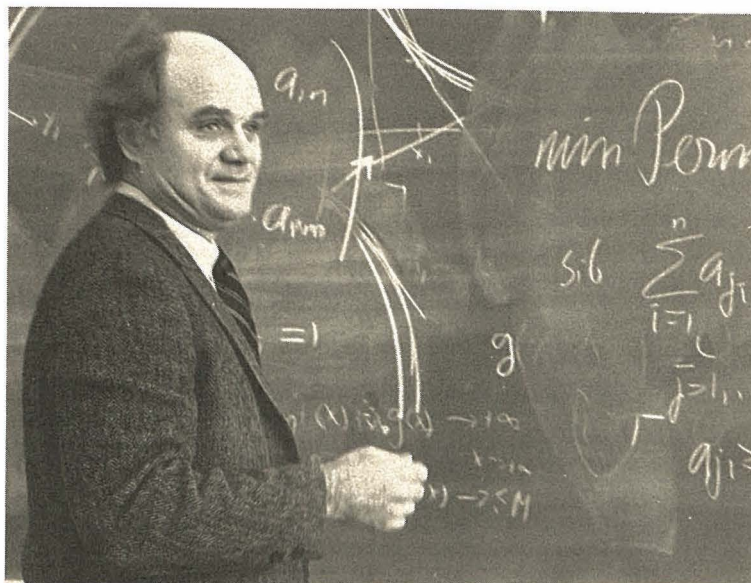
Source: Director, Cooperative Division

WEIGHTED STUDENT CREDIT HOURS PRODUCED: FALL 1983*

	<u>LOWER DIVISION</u>	<u>UPPER DIVISION</u>	<u>GRADUATE DIVISION</u>	<u>TOTAL</u>
Architecture				
Total of Previous Four Quarters ¹	5,771	9,909	7,614	23,294
Fall Quarter, 1983	2,239	2,854	2,438	7,531
Engineering				
Total of Previous Four Quarters ¹	23,562	141,363	38,740	203,665
Fall Quarter, 1983	8,217	39,914	10,888	59,019
Management				
Total of Previous Four Quarters ¹	14,959	253,890	6,137	44,986
Fall Quarter, 1983	4,831	7,005	2,326	14,162
Sciences and Liberal Studies				
Total of Previous Four Quarters ¹	201,597	58,541	15,463	275,601
Fall Quarter, 1983	66,477	17,014	4,463	87,954
Institute				
Total of Previous Four Quarters ¹	245,889	463,703	67,954	547,546
Fall Quarter, 1983	81,764	66,787	20,115	168,666

*Weighted student credit hours figures 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) letting courses without labs Total Credit Hours = Total Course Hours.

¹Total of Previous Four Quarters reflects weighted student credit hours produced for Winter, Spring, Summer, and Fall Quarters 1983.



Source: Registrar

AVERAGE FALL QUARTER GRADE POINT AVERAGES: 1978-1982

	1978	1979	1980	1981	1982
UNDERGRADUATE					
<u>Freshman</u>					
Architecture	2.4	2.4	2.5	2.3	2.2
Engineering	2.5	2.4	2.6	2.6	2.5
Management	2.1	2.1	2.1	2.2	2.1
Sciences & Liberal Studies	2.3	2.3	2.5	2.4	2.4
Total	2.3	2.4	2.4	2.5	2.5
<u>Sophomore</u>					
Architecture	2.4	2.3	2.4	2.4	2.5
Engineering	2.5	2.5	2.6	2.6	2.5
Management	2.2	2.2	2.3	2.3	2.3
Sciences & Liberal Studies	2.6	2.5	2.5	2.6	2.6
Total	2.5	2.4	2.5	2.6	2.3
<u>Junior</u>					
Architecture	2.4	2.4	2.5	2.6	2.5
Engineering	2.6	2.5	2.6	2.6	2.6
Management	2.4	2.3	2.5	2.6	2.4
Sciences & Liberal Studies	2.6	2.7	2.8	2.7	2.6
Total	2.5	2.5	2.6	2.6	2.5
<u>Senior</u>					
Architecture	2.5	2.5	2.6	2.6	2.5
Engineering	2.6	2.6	2.7	2.5	2.7
Management	2.5	2.4	2.5	2.5	2.5
Sciences & Liberal Studies	2.9	2.7	2.8	2.8	2.8
Total	2.6	2.6	2.7	2.7	2.7
<u>Total Undergraduate</u>					
Architecture	2.4	2.4	2.5	2.5	2.5
Engineering	2.5	2.5	2.6	2.6	2.6
Management	2.3	2.3	2.4	2.4	2.4
Sciences & Liberal Studies	2.5	2.5	2.6	2.6	2.6
Total	2.5	2.4	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	3.4
Management	3.3	3.2	3.2	3.4	3.4
Sciences & Liberal Studies	3.3	3.4	3.4	3.4	3.4
Total	3.4	3.3	3.4	3.4	3.4

Source: Registrar

DEGREES AWARDED BY COLLEGE : 1978-1983 (Summer-Spring)

BACHELORS

<u>College</u>	<u>1978-79</u>	<u>1979-80</u>	<u>1980-81</u>	<u>1981-82</u>	<u>1982-83</u>
ARCHITECTURE					
Total	128	130	119	111	109
ENGINEERING					
Aerospace	31	37	45	66	68
Ceramic	8	6	7	10	7
Chemical	132	137	137	154	162
Civil	171	162	136	162	153
Electrical	200	237	329	326	349
Engineering Science & Mechanics	17	14	11	10	12
Health Systems	22	24	26	19	22
Industrial & Systems	119	140	216	234	263
Mechanical	184	212	289	321	317
Nuclear & Health Physics	28	38	15	22	21
Textile	23	22	31	28	18
Total	935	1,029	1,242	1,352	1,392
MANAGEMENT					
Total	267	287	277	301	297
SCIENCES AND LIBERAL STUDIES (COSALS)					
Applied Biology	15	15	15	16	16
Chemistry	35	23	15	25	20
Information & Computer Science	34	44	56	61	85
Math	13	9	15	10	5
Physics	40	35	43	45	39
Psychology	11	9	9	14	6
Total	148	135	153	171	171

MASTERS

ARCHITECTURE					
Total	66	78	70	116	68
ENGINEERING					
Aerospace	14	9	11	16	11
Ceramic	5	4	11	6	5
Chemical	9	25	27	22	33
Civil	63	59	75	47	58
Electrical	83	109	122	171	140
Engineering Science & Mechanics	6	8	9	7	4
Industrial & Systems	54	34	53	49	37
Health Systems	14	12	16	6	8
Mechanical	22	36	47	43	48
Nuclear & Health Physics	18	19	16	23	31
Textile	6	8	7	8	6
Total	294	323	394	398	381
MANAGEMENT					
Total	87	51	58	43	44
SCIENCES AND LIBERAL STUDIES (COSALS)					
Applied Biology	2	1	4	1	3
Chemistry	8	6	9	4	7
Geophysical Sciences	9	12	17	24	9
Information & Computer Science	65	58	80	69	48
Math	5	7	6	5	4
Physics	12	9	12	20	12
Psychology	4	6	5	8	9
Social Sciences	-	-	-	-	2
Total	105	99	133	131	94

DEGREES AWARDED BY COLLEGE: 1978-1983 (continued)

PH.D

<u>College</u>	<u>1978-79</u>	<u>1979-80</u>	<u>1980-81</u>	<u>1981-82</u>	<u>1982-83</u>
ENGINEERING					
Aerospace	5	6	8	7	13
Ceramic	1	2	-	1	1
Chemical	1	3	1	5	6
Civil	2	3	4	6	6
Electrical	6	6	4	3	4
Engineering Science & Mechanics	2	-	1	-	3
Industrial & Systems	3	4	3	4	9
Mechanical	4	4	3	3	3
Nuclear & Health Physics	2	6	5	1	6
Textiles	-	-	-	1	-
Total	26	34	29	31	51
MANAGEMENT					
Total	-	1	-	-	-
SCIENCES AND LIBERAL STUDIES (COSALS)					
Chemistry	10	14	9	14	5
Geophysical Sciences	1	1	1	-	2
Information & Computer Science	1	-	3	2	2
Math	4	-	3	2	3
Physics	5	5	3	8	9
Psychology	2	3	2	2	2
Total	23	23	21	28	23

FIVE YEAR SUMMARY

Architecture					
Bachelors	128	130	119	111	109
Masters	66	78	70	116	68
Total	194	208	189	227	177
Engineering					
Bachelors	935	1,029	1,242	1,352	1,392
Masters	294	323	394	398	381
Doctorate	26	34	29	31	51
Total	1,255	1,386	1,665	1,781	1,824
Management					
Bachelors	267	287	277	301	297
Masters	87	51	58	43	44
Doctorate	0	1	0	0	0
Total	354	339	335	344	341
Sciences & Liberal Studies					
Bachelors	148	135	153	171	171
Masters	105	99	133	131	94
Doctorate	23	23	21	28	23
Total	276	257	307	330	288
Institute					
Bachelors	1,478	1,581	1,791	1,935	1,969
Masters	552	551	655	688	587
Doctorate	49	58	50	59	74
Total	2,079	2,190	2,496	2,682	2,630

Source: Registrar

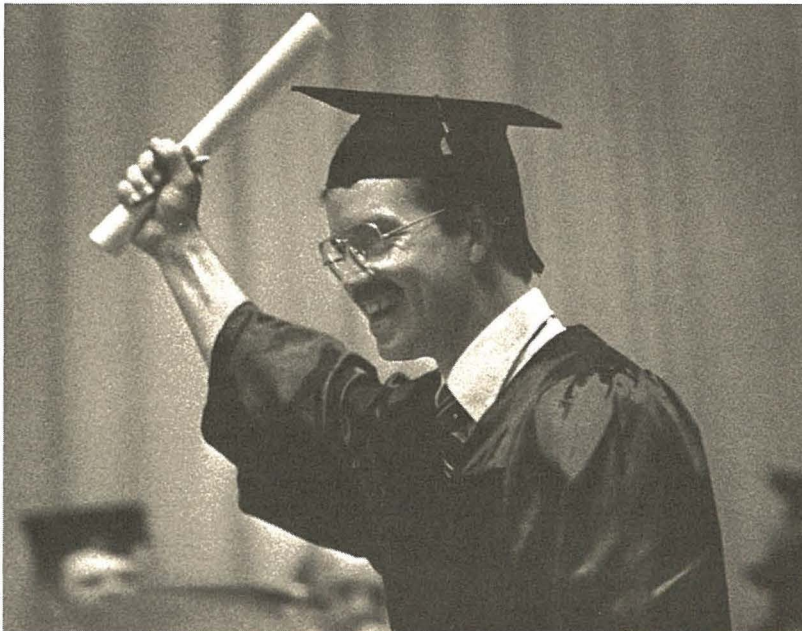
PLACEMENT CENTER

The Fred W. Ajax Placement Center is a centralized placement operation serving all students for full-time employment as well as part-time, temporary, and summer employment. The primary objectives of the center are to assist students in determining career objectives and in attaining career and employment goals.

The Placement Center maintains a library which includes information on specific employers, governmental services and some special publications relative to employment. In addition, the Placement Center 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 of the center include seminars on the employment process, resume' preparation, effective interviewing techniques, and letter writing campaigns. An open resume' file is available for employer review. This file consists of resume's submitted by students who are interested in full-time and/or summer employment.

About 700 employers annually interact directly with the Placement Center, usually through on-campus interviews. These employers represent a substantial number of the Fortune 500 companies as well as many regional organizations. Over 1,600 summer, part-time, and temporary positions are posted annually, and approximately 50 percent of these positions are filled by Tech students.



Source: Director, Fred W. Ajax Placement Center

STARTING SALARIES FOR JUNE 1983 GRADUATES

The average starting monthly salary offers shown were computed from employer correspondence only and reflect only those students who were placed through the Fred W. Ajax Placement Center. The average accepted salaries shown were computed from data supplied by June 1983 graduates.

<u>CURRICULUM</u>	<u>DEGREE</u>	<u>HIGH OFFER</u>	<u>LOW OFFER</u>	<u>AVERAGE OFFER/NO.</u>	<u>AVERAGE JUNE ACCEPTED/NO.</u>
Aerospace Engineering	Bachelors	\$2375	\$1794	\$2150/30	\$1864/4
	Masters	2450	2081	2310/6	NR
	Doctorate	2990	2990	2990/1	NR
Applied Mathematics	Doctorate	NR	NR	NR	\$1800/1
Architecture	Masters	NR	NR	NR	\$1600/1
Building Construction	Bachelors	\$1905	\$1905	\$1905/1	\$2000/1
Chemical Engineering	Bachelors	\$2583	\$1794	\$2229/34	\$2326/20
	Masters	2500	2292	2417/3	2428/3
Chemistry	Bachelors	NR	NR	NR	\$1760/1
	Doctorate	2500	2500	2500/1	1687/1
Civil Engineering	Bachelors	\$2400	\$1449	\$1909/12	\$1905/10
	Masters	2208	1702	2011/6	NR
	Doctorate	2700	2700	2700/1	NR
Electrical Engineering	Bachelors	\$2643	\$1449	\$2203/182	\$2146/55
	Masters	2795	1449	2460/38	2493/8
	Doctorate	2500	2500	2500/1	NR
Engineering Science and Mechanics	Bachelors	\$2125	\$2125	\$2125/1	\$2150/1
	Masters	2405	2405	2405/1	NR
Geophysical Sciences	Masters	\$2683	\$2350	\$2517/2	NR
Health Systems	Bachelors	NR	NR	NR	1850/1
Industrial and Systems Engineering	Bachelors	\$2417	\$1575	\$2129/51	\$2091/25
	Masters	2474	2082	2269/3	NR
	Doctorate	3038	2247	2749/2	NR
Industrial Management	Bachelors	\$2125	\$1500	\$1726/10	\$1861/17
	Masters	2467	1448	1958/2	2304/9
Information & Computer Science	Bachelors	\$2550	\$1114	\$2010/20	\$2188/13
	Masters	2883	1380	2143/4	2100/1

STARTING SALARIES FOR FOR JUNE 1983 GRADUATES (continued)

Management Science	Bachelors	\$1375	\$1375	\$1375/1	NR
Mechanical Engineering	Bachelors	\$2567	\$1449	\$2120/116	\$2046/45
	Masters	2656	2082	2367/8	2316/2
	Doctorate	2915	2915	2915/1	NR
Metallurgy	Masters	\$2328	\$2328	\$2328/1	NR
	Doctorate	2817	2817	2817/1	NR
Nuclear Engineering	Bachelors	\$2253	\$2101	\$2202/3	\$2182/5
	Masters	2500	2000	2047/9	2450/1
	Doctorate	2490	2490	2490/2	2490/1
Physics	Bachelors	\$2253	\$1380	\$2011/4	NR
	Masters	2383	2350	2369/3	NR
	Doctorate	2275	1601	1978/2	2650/1
Sanitary Engineering	Masters	\$2525	\$2350	\$2430/3	NR
Textile Chemistry	Bachelors	\$1833	\$1833	\$1833/2	NR
Textile Engineering	Bachelors	\$1533	\$1533	\$1533/1	NR
	Masters	1833	1833	1833/1	NR
Textile Management	Bachelors	\$1542	\$1542	\$1542/1	NR
Textiles	Bachelors	\$1708	\$1541	\$1625/2	NR
	Masters	2166	2166	2166/1	NR

TOTAL NUMBER OF OFFERS REPORTED:

543

AVERAGE MONTHLY OFFERS

DEGREE	1981-82 <u>Offer/No.</u>	82-83 <u>Offer/No.</u>	PERCENT CHANGE (in average monthly offers)
All B.S. Excluding Engineering	\$1745/72	1883/41	+ 7.9
All B./B.S. Degrees	\$2029/1020	2125/482	+ 4.9
B in Engineering	\$2131/911	2160/430	+ 1.3
B.S./Industrial Management	\$1666/37	1694/11	+ 1.6
All M.S. Degrees	\$2250/163	2323/91	+ 3.2
M.S. in Engineering	\$2253/138	2334/75	+ 3.5
All Ph.D Degrees	\$2478/13	2563/12	+ 3.4

Note: NR means No Response (No Feedback; No Information; No Data Available). Only curricula with some available data are listed.

Source: Director, Fred W. Ajax Placement Center

POST-GRADUATION PLANS

Summary of 1982-83 Georgia Tech Graduates Post-Graduation Plans

September 1982 Graduates

<u>College</u>	<u>Number Reporting</u>	<u>Accepted Employment</u>	<u>Graduate School</u>	<u>Entering Military</u>	<u>Other</u>	<u>No Offers/ Plans</u>
Architecture	3	1 (33.3%)	1 (33.3%)	0 (0.0%)	0 (0.0%)	1 (33.3%)
Engineering	137	76 (55.5%)	16 (11.8%)	2 (1.4%)	1 (0.7%)	42 (30.7%)
Management	9	5 (55.6%)	2 (22.2%)	1 (11.1%)	0 (0.0%)	1 (11.1%)
Sciences & Liberal Studies	<u>21</u>	<u>13 (62.0%)</u>	<u>3 (14.2%)</u>	<u>0 (0.0%)</u>	<u>0 (0.0%)</u>	<u>5 (23.8%)</u>
Total	170	95 (55.8%)	22 (12.9%)	3 (1.7%)	1 (0.8%)	49 (28.8%)

December 1982 Graduates

Architecture	12	3(25.0%)	5 (41.6%)	1 (8.4%)	0 (0.0%)	3 (25.0%)
Engineering	119	58 (48.8%)	9 (7.7%)	15 (12.7%)	1 (0.5%)	36 (30.3%)
Management	15	5 (33.3%)	1 (6.7%)	2 (13.3%)	0 (0.0%)	7 (46.7%)
Sciences & Liberal Studies	<u>30</u>	<u>15 (50.0%)</u>	<u>8 (26.7%)</u>	<u>1 (3.3%)</u>	<u>1 (3.3%)</u>	<u>5 (16.7%)</u>
Total	176	81 (46.0%)	23 (13.0%)	19 (10.9%)	2 (1.1%)	51 (29.0%)

March 1983 Graduates

Architecture	10	4 (40.0%)	1 (10.0%)	0 (0.0%)	0 (0.0%)	5 (50.0%)
Engineering	163	63 (38.7%)	30 (18.4%)	3 (1.8%)	1 (0.6%)	66 (40.5%)
Management	40	18 (45.0%)	4 (10.0%)	0 (0.0%)	0 (0.0%)	18 (45.0%)
Sciences & Liberal Studies	<u>32</u>	<u>14 (44.0%)</u>	<u>6 (18.7%)</u>	<u>0 (0.0%)</u>	<u>1 (3.1%)</u>	<u>11 (34.2%)</u>
Total	245	99 (40.4%)	41 (16.8%)	3 (1.2%)	2 (0.8%)	100 (40.8%)

June 1983 Graduates

Architecture	26	6 (23.0%)	6 (23.0%)	1 (4.0%)	0 (0.0%)	13 (50.0%)
Engineering	498	275 (55.4%)	57 (11.5%)	28 (5.7%)	4 (0.4%)	134 (27.0%)
Management	85	32 (37.7%)	9 (10.7%)	2 (2.3%)	1 (1.1%)	41 (48.2%)
Sciences & Liberal Studies	<u>83</u>	<u>34 (41.0%)</u>	<u>14 (16.9%)</u>	<u>5 (6.0%)</u>	<u>0 (0.0%)</u>	<u>30 (36.1%)</u>
Total	692	347 (50.2%)	86 (12.5%)	36 (5.3%)	5 (0.3%)	218 (31.7%)

Total 1982-1983 Graduates

Architecture	51	14 (27.5%)	13 (25.5%)	2 (3.9%)	0 (0.0%)	22 (43.1%)
Engineering	917	472 (51.5%)	112 (12.3%)	48 (5.3%)	7 (0.6%)	278 (30.3%)
Management	149	60 (40.3%)	16 (10.7%)	5 (3.3%)	1 (0.7%)	67 (45.0%)
Sciences & Liberal Studies	<u>166</u>	<u>76 (45.7%)</u>	<u>31 (18.7%)</u>	<u>6 (3.6%)</u>	<u>2 (1.2%)</u>	<u>51 (30.8%)</u>
TOTAL	1283	622 (48.5%)	172 (13.4%)	61 (4.8%)	10 (0.7%)	418 (32.6%)

Source: Director, Fred. W. Ajax Placement Center

ALUMNI PLACEMENT

The Georgia Tech Alumni Placement Office serves both alumni and graduating seniors. It is funded through the Georgia Tech Alumni Association's Roll Call contributions and by companies who utilize the Alumni Placement Service.

The Alumni Placement Office publishes a weekly bulletin of job opportunities distributed free of charge to interested alumni. This bulletin is mailed to approximately 9000 Georgia Tech Alumni per year and includes more than 3000 available employment opportunities. According to the College Placement Council, only six colleges in the country have an alumni placement service similar to the one at Georgia Tech. Of the six, Georgia Tech is the only one publishing a weekly bulletin.

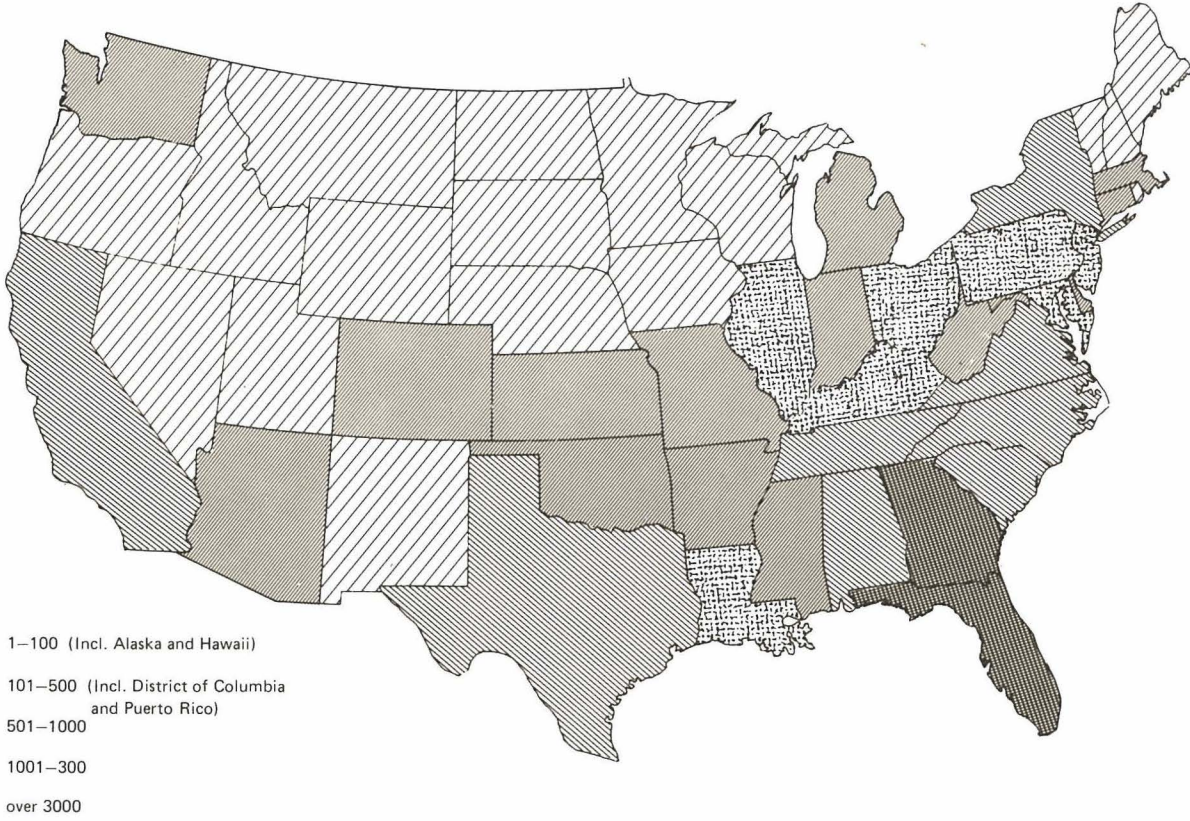
Since 1936, the Alumni Placement Service has provided industry, business, and government with a source of well educated and broadly experienced graduates. The objective is to provide Georgia Tech alumni who are seeking to make a career change the opportunity to be exposed to a variety of employment openings.



Source: Director, Alumni Placement Office

GEOGRAPHICAL DISTRIBUTION OF ALUMNI

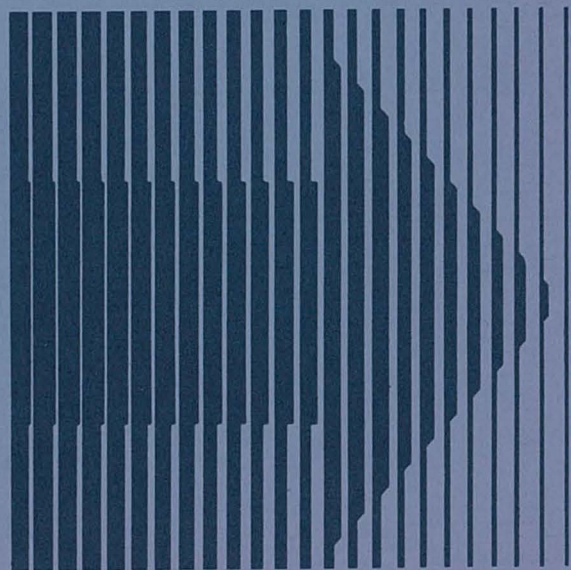
(As of July 1, 1983)



STATE	NUMBER	STATE	NUMBER
Alabama	1,738	Nebraska	46
Alaska	29	Nevada	43
Arizona	182	New Hampshire	52
Arkansas	175	New Jersey	747
California	1,903	New Mexico	87
Colorado	315	New York	1,092
Connecticut	417	North Carolina	1,732
Delaware	214	North Dakota	9
District of Columbia	133	Ohio	729
Florida	4,351	Oklahoma	175
Georgia	20,897	Oregon	64
Hawaii	49	Pennsylvania	744
Idaho	31	Puerto Rico	231
Illinois	504	Rhode Island	40
Indiana	231	South Carolina	1,576
Iowa	60	South Dakota	4
Kansas	107	Tennessee	1,965
Kentucky	341	Texas	2,283
Louisiana	776	Utah	37
Maine	26	Vermont	16
Maryland	860	Virginia	1,648
Massachusetts	400	Washington	222
Michigan	266	West Virginia	138
Minnesota	89	Wisconsin	97
Mississippi	399	Wyoming	18
Missouri	344	Foreign	988
Montana	15	Unknown	7
TOTAL COUNTED (This figure does not include persons who are deceased or cannot be located.)			49,642

Source: Director, Alumni Association

GENERAL INFORMATION



FINANCIAL DATA

The consolidated expenditures in the Original Budget for 1983-84 were \$177,223,327, including an increase of \$6,899,726 - 4.1 percent over total expenditures in the 1982-83 fiscal year of \$170,323,601.

The breakdown of expenditures by percentage of the total amount expended on the various items for a six year period, is:

Expenditures	ACTUAL					ORIGINAL BUDGET
	78-79	79-80	80-81	81-82	82-83	1983-84
Instruction	17.5	16.7	15.6	15.9	15.2	15.4
Research	13.5	13.9	12.7	12.8	13.3	12.0
Public Services			.1	.3	.2	.3
Academic Support	4.6	4.4	4.3	4.8	5.1	4.8
Student Services	1.2	1.2	1.2	1.3	1.1	1.1
Institutional Support	8.0	8.0	7.8	8.3	7.8	8.2
Operation of Plant	7.4	7.4	6.6	6.2	6.4	6.6
Sponsored Operations	27.4	27.0	26.4	25.7	30.9	33.2
Scholarships & Fellowships	1.3	1.5	1.5	1.3	2.2	2.0
Auxiliary Enterprises	8.2	7.9	7.6	7.4	7.3	8.2
Georgia Tech Athletic Association, Inc.	2.2	2.7	2.5	2.6	3.0	3.5
Student Activities	.9	.8	.7	.7	.6	.6
Georgia Tech Foundation, Inc.	4.5	3.5	2.4	4.1	2.9	1.1
Georgia Tech Research Institute, Inc.	.4	2.1	1.8	1.8	2.3	2.4
Unexpended Plant Fund	2.9	2.9	8.8	7.0	1.7	.6
TOTAL	100%	100%	100%	100%	100%	100%

Georgia Institute of Technology's total revenue from all sources in the 1983-84 fiscal year is \$177,900,568, including an increase of \$6,299,599 - 3.7 percent over total revenue in the 1982-83 fiscal year of \$171,600,969.

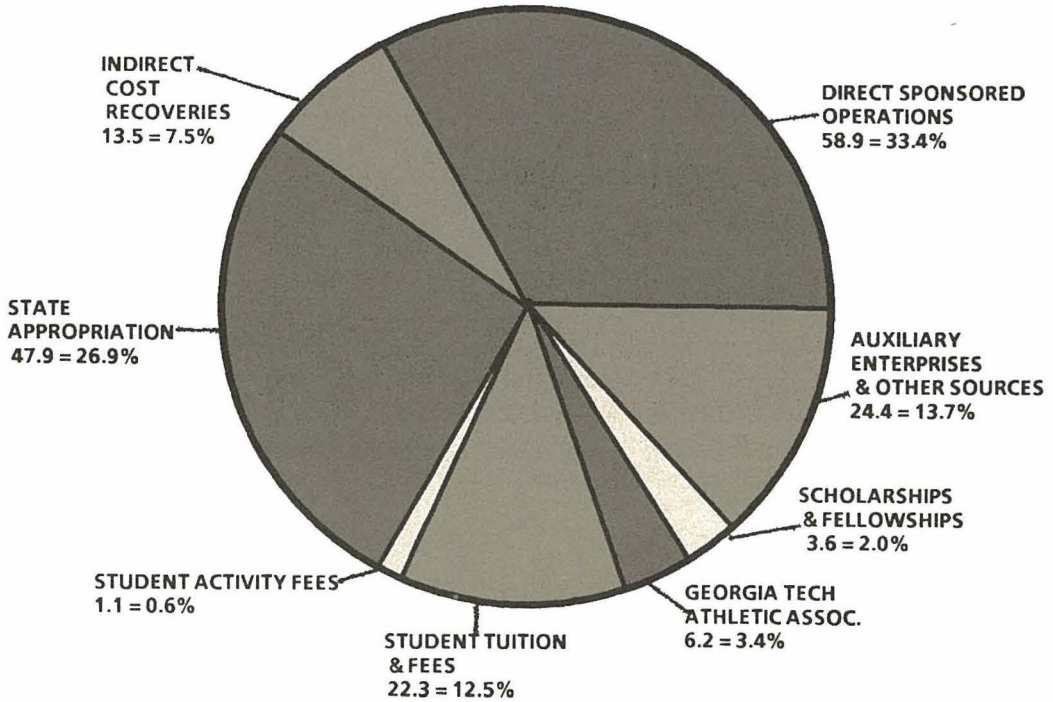
The breakdown of revenue by percentages of the total original budgeted amount in 1983-84, compared with prior five years is:

Revenue	ACTUAL					ORIGINAL BUDGET
	78-79	79-80	80-81	81-82	82-83	1983-84
State Appropriation	30.9	29.2	32.1	30.9	25.8	26.9
Student Tuition & Fees	11.5	11.0	11.5	10.9	11.6	12.5
Endowment	.2	.9	1.5	1.9	.9	.3
Gifts & Grants	1.0	1.0	.2	.9	.5	.1
Indirect Cost Recoveries	9.0	9.3	8.6	8.4	8.9	7.6
Sponsored Operations	27.1	26.7	26.2	25.5	30.7	33.1
Scholarships & Fellowships	1.3	1.4	1.5	1.3	2.2	2.0
Auxiliary Enterprises	9.0	9.0	8.7	8.5	8.0	8.6
Georgia Tech Athletic Association, Inc.	2.2	2.6	2.5	2.6	3.0	3.5
Student Activities	.9	.9	.7	.6	.7	.6
Georgia Tech Foundation, Inc.	4.4	3.5	2.3	4.1	2.9	1.1
Georgia Tech Research Institute, Inc.	.4	2.0	1.8	1.8	2.3	2.4
Other Sources	2.1	2.5	2.4	2.6	2.5	1.3
TOTAL	100%	100%	100%	100%	100%	100%

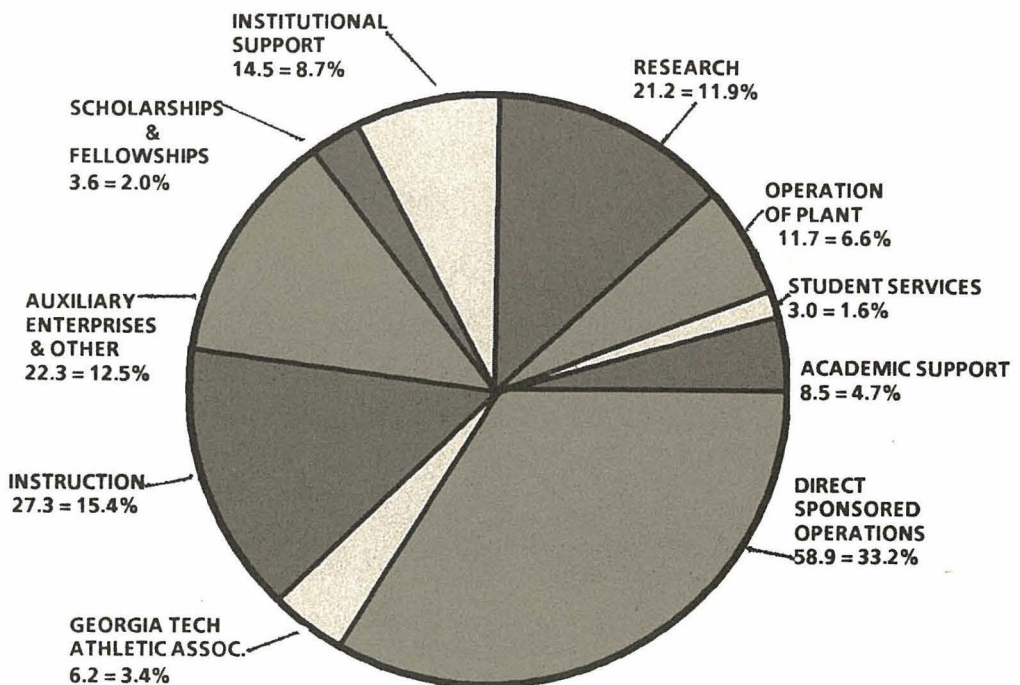
Source: Vice President for Business and Finance

FINANCIAL DATA (continued)

FISCAL YEAR 1983-84 CONSOLIDATED REVENUE BY SOURCE -- \$177.9 MILLION



FISCAL YEAR 1983-84 CONSOLIDATED EXPENDITURES BY BUDGETARY FUNCTION - \$177.2 MILLION



FINANCIAL DATA - REVENUES

	ACTUAL					Incr. (Decr.)	
	FY 1978-79	FY 1979-80	FY 1980-81	FY 1981-82	FY 1982-83	FY 1982-83 %	FY 1983-84 Budget
STUDENT TUITION & FEES							
Resident Inst.	\$10,773,597	\$12,273,519	\$15,349,677	\$16,233,829	\$18,733,868	73.9	\$ 21,134,000
Eng. Ext. Div.	594,278	732,353	935,197	1,161,380	1,287,701	116.7	1,204,739
Total	\$11,367,875	\$13,005,872	\$16,284,874	\$17,395,209	\$20,021,569	76.1	\$ 22,338,739
ENDOWMENT INCOME							
Resident Inst.	\$ 18,000	\$ 141,628	\$ 184,005	\$ 957,985	\$ 225,656	1153.6	\$ 18,000
Eng. Exp. Station	114,620	2,354	3,122	6,126			3,000
Unexp. Plant Funds	48,978	897,000	1,880,016	2,130,117	1,399,933	2758.3	500,000
Total	\$ 181,598	\$ 1,040,982	\$ 2,067,143	\$ 3,094,228	\$ 1,625,589	795.2	\$ 521,000
GIFTS & GRANTS							
Resident Inst.	\$ 167,031	\$ 199,632	\$ 214,452	\$ 272,928	\$ 449,123	168.9	\$ 85,000
Eng. Ext. Div.	64,273	65,179	75,640	90,458	74,817	16.4	88,028
Eng. Exp. Station	500						
Adv. Tech. Dev. Ctr.				398	184		
Unexp. Plant Funds	735,792	900,656	27,202	1,028,000	327,876	(55.4)	
Total	\$ 967,596	\$ 1,165,467	\$ 317,294	\$ 1,391,784	\$ 852,000	(11.9)	\$ 173,028
INDIRECT COST RECOVERIES							
Resident Inst.	\$ 3,429,136	\$ 3,993,230	\$ 4,144,608	\$ 4,451,801	\$ 4,259,463	24.2	\$ 3,880,000
Eng. Ext. Div.	1,429	2,455		2,286	11	(99.2)	
Eng. Exp. Sta.	5,607,553	7,005,351	8,049,709	8,939,356	10,956,711	95.4	9,596,123
Adv. Tech. Dev. Ctr.				17,461	35,041		
Total	\$ 9,038,118	\$11,001,036	\$12,194,317	\$13,410,904	\$15,251,226	68.7	\$ 13,476,123
OTHER SOURCES							
Resident Inst.	\$ 489,017	\$ 644,765	\$ 684,276	\$ 418,583	\$ 714,307	46.1	\$ 80,066
Eng. Ext. Div.	300				(1,383)	(461.0)	
Eng. Exp. Sta.	777,085	1,386,257	1,349,899	1,925,332	2,351,157	202.6	2,132,752
Adv. Tech. Dev. Ctr.			(691)		(184)		
Unexp. Plant Funds	809,026	852,997	1,346,566	1,730,254	1,206,101	49.1	
Total	\$ 2,075,428	\$ 2,884,019	\$ 3,380,050	\$ 4,074,169	\$ 4,269,998	105.7	\$ 2,212,818
STATE APPROPRIATION							
Resident Inst.	\$25,827,515	\$29,266,000	\$31,440,600	\$37,077,100	\$38,237,100	48.0	\$ 40,909,034
Eng. Ext. Div.	377,500	457,075	501,389	552,045	507,829	34.5	555,614
Eng. Exp. Sta.	3,183,505	3,803,220	4,239,048	4,649,904	4,713,895	48.1	4,993,943
Agricultural Res.	60,000	60,000	60,000	396,801	420,887	601.5	443,270
Adv. Tech. Dev. Ctr.			185,000	358,555	409,557		533,041
Unexp. Plant Funds	1,225,000	766,000	9,010,389	6,225,713			500,000
Total	\$30,673,520	\$34,352,295	\$45,436,417	\$49,260,118	\$44,289,269	44.4	\$ 47,934,902
SPONSORED OPERATIONS							
Resident Inst.	\$ 9,822,695	\$ 11,321,431	\$ 13,698,110	\$ 14,655,904	\$ 17,723,001	80.4	\$ 15,400,000
Eng. Ext. Div.	14,792	4,240	8,977	5,316			50,000
Eng. Exp. Sta.	17,095,432	20,119,552	23,257,359	25,778,700	34,836,733	103.8	43,440,582
Adv. Tech. Dev. Ctr.				33,006	95,458		
Total	\$26,932,919	\$ 31,445,223	\$ 36,964,446	\$ 40,472,926	\$ 52,655,192	95.5	\$ 58,890,582
SCHOLARSHIPS & FELLOWSHIPS							
	\$ 1,280,555	\$ 1,650,092	\$ 2,076,660	\$ 1,999,348	\$ 3,664,552	186.2	\$ 3,600,000
AUXILIARY ENTERPRISES							
	\$ 8,886,919	\$ 10,615,272	\$ 12,318,902	\$ 13,488,402	\$ 13,752,244	54.7	\$ 15,267,700
GA. TECH ATH. ASSN.							
	\$ 2,199,000	\$ 3,106,000	\$ 3,537,000	\$ 4,091,100	\$ 5,095,414	131.7	\$ 6,231,500
STUDENT ACTIVITIES							
	\$ 941,512	\$ 984,096	\$ 984,351	\$ 1,052,917	\$ 1,205,327	28.0	\$ 1,043,529
GA. TECH FOUN., INC.							
	\$ 4,430,694	\$ 4,178,860	\$ 3,311,602	\$ 6,498,458	\$ 4,991,457	12.7	\$ 1,900,647
GA. TECH RES. INST.							
	\$ 450,000	\$ 2,398,000	\$ 2,455,000	\$ 2,923,811	\$ 3,927,133	772.7	\$ 4,310,000
TOTAL REVENUE							
Resident Inst.	\$51,807,546	\$ 59,490,297	\$ 67,792,388	\$ 76,067,478	\$ 84,007,070	62.2	\$ 85,106,100
Eng. Exp. Sta.	26,778,694	32,316,734	36,899,137	41,299,418	52,858,496	97.4	60,166,400
Eng. Ext. Div.	1,052,573	1,261,302	1,521,194	1,811,485	1,868,975	77.6	1,898,381
Agricultural Res.	60,000	60,000	60,000	396,801	420,887	601.5	443,270
Adv. Tech. Dev. Ctr.			184,309	409,420	540,056		533,041
Auxiliary Enterpr.	8,886,919	10,615,272	12,318,902	13,488,402	13,752,244	54.7	15,267,700
GA. Tech Ath. Assn.	2,199,000	3,106,000	3,537,000	4,091,100	5,095,414	131.7	6,231,500
Student Activities	941,512	984,096	984,351	1,052,917	1,205,327	28.0	1,043,529
GA. Tech Foun., Inc.	4,430,694	4,178,860	3,311,602	6,498,458	4,991,457	12.7	1,900,647
GA. Tech Res. Inst.	450,000	2,398,000	2,455,000	2,923,811	3,927,133	772.7	4,310,000
Unexp. Plant Funds	2,818,796	3,416,653	12,264,173	11,114,084	2,933,910	4.1	1,000,000
Total	\$99,425,734	\$117,827,214	\$141,328,056	\$159,153,374	\$171,600,969	72.6	\$177,900,568

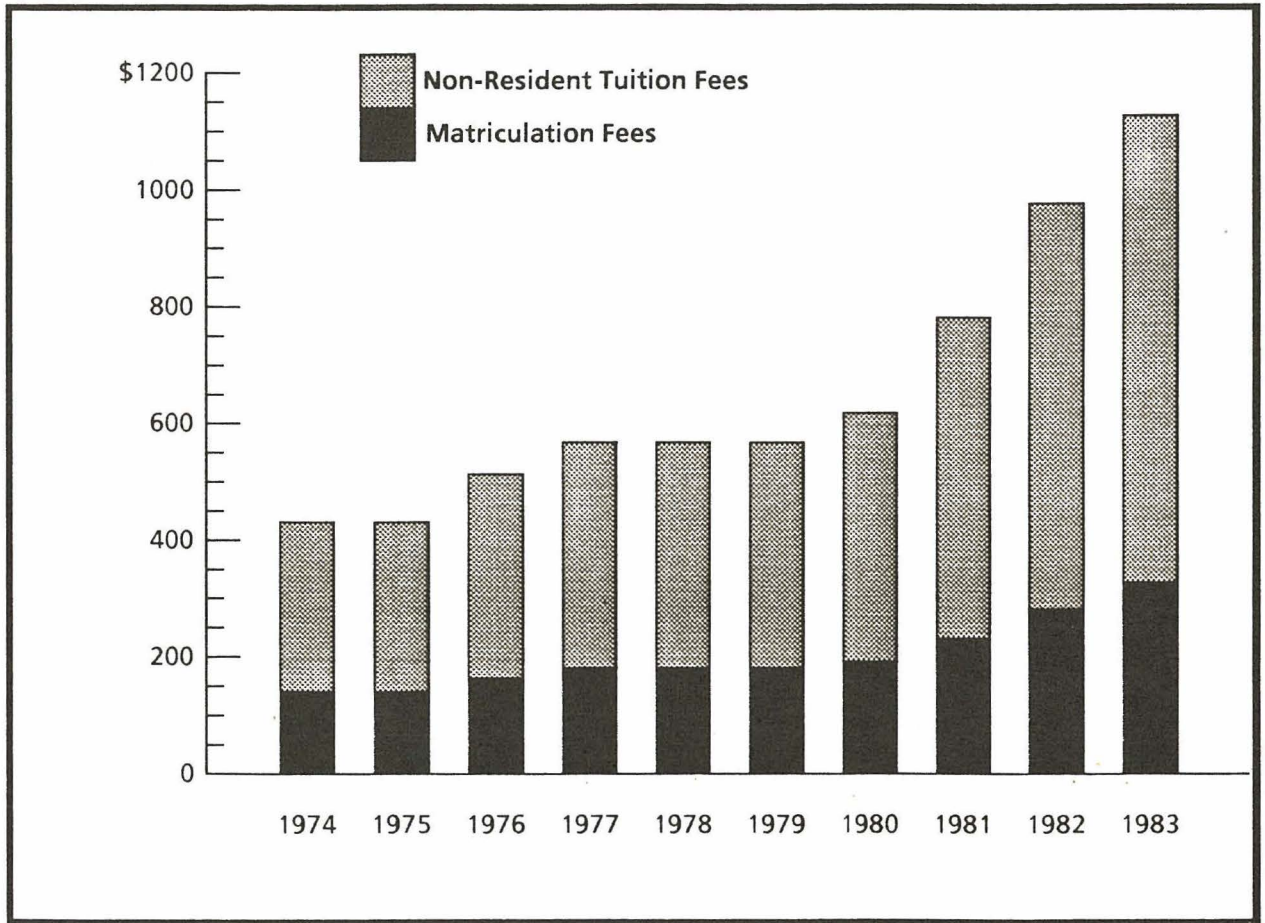
FINANCIAL DATA - EXPENDITURES

	ACTUAL					Incr. (Decr)	
	FY 1978-79	FY 1979-80	FY 1980-81	FY 1981-82	FY 1982-83	FY 1978-79/ FY 1982-83 %	FY 1983-84 Budget
INSTRUCTION							
Resident Instruction							
State	\$16,232,903	\$18,323,839	\$20,468,099	\$23,316,794	\$24,094,364	48.4	\$ 25,612,100
Sponsored	1,176,383	1,253,307	1,311,734	1,584,388	2,736,521	132.6	1,273,398
Total Res. Ins.	\$17,409,286	\$19,577,146	\$21,779,833	\$24,901,182	\$26,830,885	54.1	\$ 26,885,498
Eng. Ext. Div.							
State	963,067	1,176,089	1,405,039	1,659,936	1,721,105	78.7	1,697,824
Total	\$18,372,353	\$20,753,235	\$23,184,872	\$26,561,118	\$28,551,990	55.4	\$ 28,583,322
RESEARCH							
Resident Instruction							
State	\$ 6,375,766	\$ 7,296,782	\$ 7,818,063	\$ 8,300,152	\$ 7,708,480	20.9	\$ 7,854,769
Sponsored	8,512,245	9,913,232	11,796,493	12,503,764	14,363,274	68.7	13,745,873
Total Res. Ins.	\$14,888,011	\$17,210,014	\$19,614,556	\$20,803,916	\$22,071,754	48.3	\$ 21,600,642
Eng. Exp. Station							
State	\$ 6,817,629	\$ 8,800,961	\$ 9,857,034	\$11,516,480	\$14,501,046	112.7	\$ 12,916,928
Sponsored	17,095,432	20,119,552	23,257,359	25,778,700	34,836,733	103.8	43,440,582
Total Eng. Exp. Sta.	\$23,913,061	\$28,920,513	\$33,114,393	\$37,295,180	\$49,337,779	106.3	\$ 56,357,510
Agr. Res.							
State	57,360	56,563	59,735	372,467	391,780	583.0	402,271
Eng. Ext. Div.							
State				\$ 2,832			
Sponsored	14,792	4,240	8,977	5,316			50,000
Total Eng. Ext. Div.	\$ 14,792	\$ 4,240	\$ 8,977	\$ 8,148			\$ 50,000
AIDC							
Sponsored				\$ 33,006	\$ 95,458		
Total	\$38,873,224	\$46,191,330	\$52,797,661	\$58,512,717	\$71,896,771	85.0	\$ 78,410,423
PUBLIC SERVICE							
Adv. Tech. Dev. Ctr.							
State			\$ 175,775	\$ 359,367	\$ 408,049		\$ 441,116
ACADEMIC SUPPORT							
Resident Instruction							
State	\$ 4,479,641	\$ 5,075,274	\$ 5,963,792	\$ 7,312,348	\$ 8,727,383	94.8	\$ 8,537,193
Sponsored	2,055	2,055			137,322	6582.3	
Total	\$ 4,481,696	\$ 5,077,329	\$ 5,963,792	\$ 7,312,348	\$ 8,864,705	97.8	\$ 8,537,193
STUDENT SERVICES							
Resident Instruction							
State	\$ 1,218,520	\$ 1,426,048	\$ 1,680,071	\$ 2,008,877	\$ 1,886,004	54.8	\$ 1,977,813
Sponsored		3,130	4,934	3,174	22,144		7,200
Total	\$ 1,218,520	\$ 1,429,178	\$ 1,685,005	\$ 2,012,051	\$ 1,908,148	56.6	\$ 1,985,013
INSTITUTIONAL SUPPORT							
Resident Instruction							
State	\$ 5,677,285	\$ 6,644,998	\$ 8,043,490	\$ 9,986,349	\$10,901,823	92.0	\$ 12,058,036
Sponsored	132,012	149,707	545,919	521,000	431,568	226.9	373,529
Total Res. Ins.	\$ 5,809,297	\$ 6,794,705	\$ 8,589,409	\$10,507,349	\$11,333,391	95.1	\$ 12,431,565
Eng. Ext. Div.							
State	40,366	50,472	67,246	78,795	96,116	138.1	98,182
Eng. Exp. Station							
State	2,117,878	2,646,446	2,760,441	2,900,489	2,213,031	4.4	2,289,160
Agricultural Res.							
State		3,144		24,223	29,217		40,999
Adv. Tech. De. Ctr.							
State			8,006	17,047	24,754		35,152
Total	\$ 7,967,541	\$ 9,494,767	\$11,425,102	\$13,527,903	\$13,696,509	71.9	\$ 14,895,058

EXPENDITURES (continued)

	ACTUAL					Incr. (Decr.)	FY 1983-84 Budget
	FY 1978-79	FY 1979-80	FY 1980-81	FY 1981-82	FY 1982-83	FY 1978-79/ FY 1982-83 %	
OPERATION OF PLANT							
Resident Instruction							
State	\$ 6,544,509	\$ 7,780,405	\$ 8,109,111	\$ 8,569,067	\$ 9,437,734	44.2	\$ 10,066,189
Sponsored			39,030	43,578	32,172		
Total Res. Ins.	\$ 6,544,509	\$ 7,780,405	\$ 8,148,141	\$ 8,612,645	\$ 9,469,906	44.7	\$ 10,066,189
Eng. Ext. Div							
State	30,531	45,147	39,410	61,151	48,537	59.0	52,375
Eng. Exp. Station							
State	759,542	779,143	1,039,105	1,131,066	1,334,667	75.7	1,519,730
Agricultural Res.							
State							
Adv. Tech. Dev. Ctr.							
State					11,633		56,773
Total	\$ 7,334,582	\$ 8,604,695	\$ 9,226,656	\$ 9,804,862	\$ 10,864,743	48.1	\$ 11,695,067
SCHOLARSHIPS & FELLOWSHIPS-Res.Instr.							
	\$ 1,280,555	\$ 1,650,092	\$ 2,076,660	\$ 1,999,348	\$ 3,664,552	186.2	\$ 3,600,000
AUXILIARY ENTERPRISES							
	\$ 8,143,086	\$ 9,151,122	\$ 10,646,546	\$ 11,573,675	\$ 12,394,386	52.2	\$ 14,590,459
GA. TECH ATH. ASSN.							
	\$ 2,199,000	\$ 3,106,000	\$ 3,537,000	\$ 4,091,100	\$ 5,095,414	131.7	\$ 6,231,500
STUDENT ACTIVITIES							
	\$ 888,124	\$ 953,669	\$ 1,018,244	\$ 1,077,377	\$ 1,124,591	26.6	\$ 1,043,529
GA. TECH FOUND., INC.							
	\$ 4,430,694	\$ 4,178,860	\$ 3,311,602	\$ 6,498,458	\$ 4,991,457	12.7	\$ 1,900,647
GA. TECH RES. INST.							
	\$ 450,000	\$ 2,398,000	\$ 2,455,000	\$ 2,923,811	\$ 3,927,133	772.7	\$ 4,310,000
UNEXP. PLANT FUNDS							
	\$ 2,818,796	\$ 3,416,653	\$ 12,264,173	\$ 11,114,084	\$ 2,935,153	4.1	\$ 1,000,000
GRAND TOTAL							
Resident Instruction	\$40,528,624	\$ 46,547,346	\$ 52,082,626	\$ 59,493,587	\$ 62,755,788	54.8	\$ 66,106,100
State	9,822,695	11,321,431	13,698,110	14,655,904	17,723,001	80.4	15,400,000
Sponsored	1,280,555	1,650,092	2,076,660	1,999,348	3,664,552	186.2	3,600,000
Total Res. Inst.	\$51,631,874	\$ 59,518,869	\$ 67,857,396	\$ 76,148,839	\$ 84,143,341	63.0	\$ 85,106,100
Eng. Ext. Div.	1,048,756	1,275,948	1,520,672	1,808,030	1,865,758	77.9	\$ 1,898,381
Eng. Exp. Sta.	26,790,481	32,346,102	36,913,939	41,326,735	52,885,477	97.4	60,166,400
Agricult. Res.	57,360	59,707	59,735	396,690	420,997	634.0	443,270
Adv. Tech. Dev. Ctr.			183,781	409,420	539,894		533,041
Auxiliary Enterp.	8,143,086	9,151,122	10,646,546	11,573,675	12,394,386	52.2	14,590,459
Ca. Tech. Ath. Assn.	2,199,000	3,106,000	3,537,000	4,091,100	5,095,414	131.7	6,231,500
Student Activities	888,124	953,669	1,018,244	1,077,377	1,124,591	26.6	1,043,529
Ca. Tech Found. Inc.	4,430,694	4,178,860	3,311,602	6,498,458	4,991,457	12.7	1,900,647
Ca. Tech Res. Inst.	450,000	2,398,000	2,455,000	2,923,811	3,927,133	772.7	4,310,000
Unex. Plant Fund	2,818,796	3,416,653	12,264,173	11,114,084	2,935,153	4.1	1,000,000
TOTAL	\$98,458,171	\$116,404,930	\$139,768,088	\$157,368,219	\$170,323,601	73.0	\$177,223,327

MATRICULATION FEES: FALL QUARTERS 1974-1983



<u>Year</u>	<u>Matriculation Fee</u> (Resident & Non-Resident Fee)	<u>Non-Resident Tuition Fee</u>	<u>Total Non-Resident Tuition Fee</u>
1974	\$145	\$295	\$440
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

Source: Vice President for Business and Finance

ACADEMIC FACULTY PROFILE* (As of June 30, 1983)

DISTRIBUTION BY RANK

	<u>Professor</u>	Associate <u>Professor</u>	Assistant <u>Professor</u>	<u>Instructor</u>	<u>Totals</u>
Full-Time Teaching Faculty	226	164	122	8	520
Research Faculty	0	0	0	0	0
General Administrators	12	1	1	0	14
Academic Administrators	36	7	0	0	43
Librarians	0	7	2	0	9
On-Leave	12	2	7	0	21
Part-Time Faculty ^a	3	4	6	1	14
Other ^b	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>1</u>
Total	289	185	138	9	622

DISTRIBUTION BY HIGHEST DEGREE

	<u>Doctorate</u>	First <u>Professional^c</u>	Ed. Spec/ <u>Master's</u>	<u>Bachelor</u>	<u>Totals</u>
Full-Time Teaching Faculty	447	1	63	9	520
Research Faculty	0	0	0	0	0
General Administrators	13	0	1	0	14
Academic Administrators	38	0	5	0	43
Librarians	0	0	9	0	9
On-Leave	21	0	0	0	21
Part-Time Faculty ^a	9	0	3	2	14
Other ^b	<u>0</u>	<u>0</u>	<u>0</u>	<u>1</u>	<u>1</u>
Total	528	1	81	12	622

DISTRIBUTION BY RACE AND SEX

	Black <u>Male</u>	White <u>Male</u>	Other <u>Male</u>	Black <u>Female</u>	White <u>Female</u>	Other <u>Female</u>	<u>Totals</u>
Full-Time Teaching Faculty	5	447	34	7	27	0	520
Research Faculty	0	0	0	0	0	0	0
General Administrators	0	12	0	0	2	0	14
Academic Administrators	0	41	2	0	0	0	43
Librarians	0	1	0	1	7	0	9
On-Leave	0	18	1	0	1	1	21
Part-Time Faculty ^a	0	12	0	0	2	0	14
Other ^b	<u>0</u>	<u>1</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>1</u>
Total	5	532	37	8	39	1	622

*Includes only those persons with academic rank.

^aIncludes only those part-time faculty (those persons who are 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.

^bFull-Time Lecturers

^cIncludes M.D., J.D., D. V. M.

Source: Vice President for Academic Affairs

RESEARCH PERSONNEL PROFILE (As of September 30, 1983)

	EES Budgeted	Academic Budgeted ^a	EES Part-time ^b	Academic Part-time ^c	Total
<u>RESEARCH FACULTY</u>					
Distribution by Title					
Principal E/S/T/A ^d	61	6	3	2	72
Senior E/S/T/A	176	26	9	4	215
Research II E/S/T/A	146	54	4	1	205
Research I E/S/T/A	182	43	8	4	237
Post Doctoral Fellows	<u>2</u>	<u>30</u>	<u>0</u>	<u>0</u>	<u>32</u>
Total	567	159	24	11	761
Distribution by Degree					
Doctorate	98	76	5	5	184
First Professional ^e	3	3	0	1	7
Masters	265	26	11	1	303
Bachelors	192	43	7	1	243
Other	4	6	0	3	13
No Degree	<u>5</u>	<u>5</u>	<u>1</u>	<u>0</u>	<u>11</u>
Total	567	159	24	11	761
Distribution by Race and Sex					
Black Males	8	8	0	0	16
White Males	497	112	22	5	636
All Other Males	9	23	0	5	37
Black Females	1	0	0	0	1
White Females	52	15	2	0	69
All Other Females	<u>0</u>	<u>1</u>	<u>0</u>	<u>1</u>	<u>2</u>
Total	567	159	24	11	761
<u>GRADUATE RESEARCH ASSISTANTS</u>			72	428	500

^a Includes Office of Contract Administration (OCA).

^b Hourly

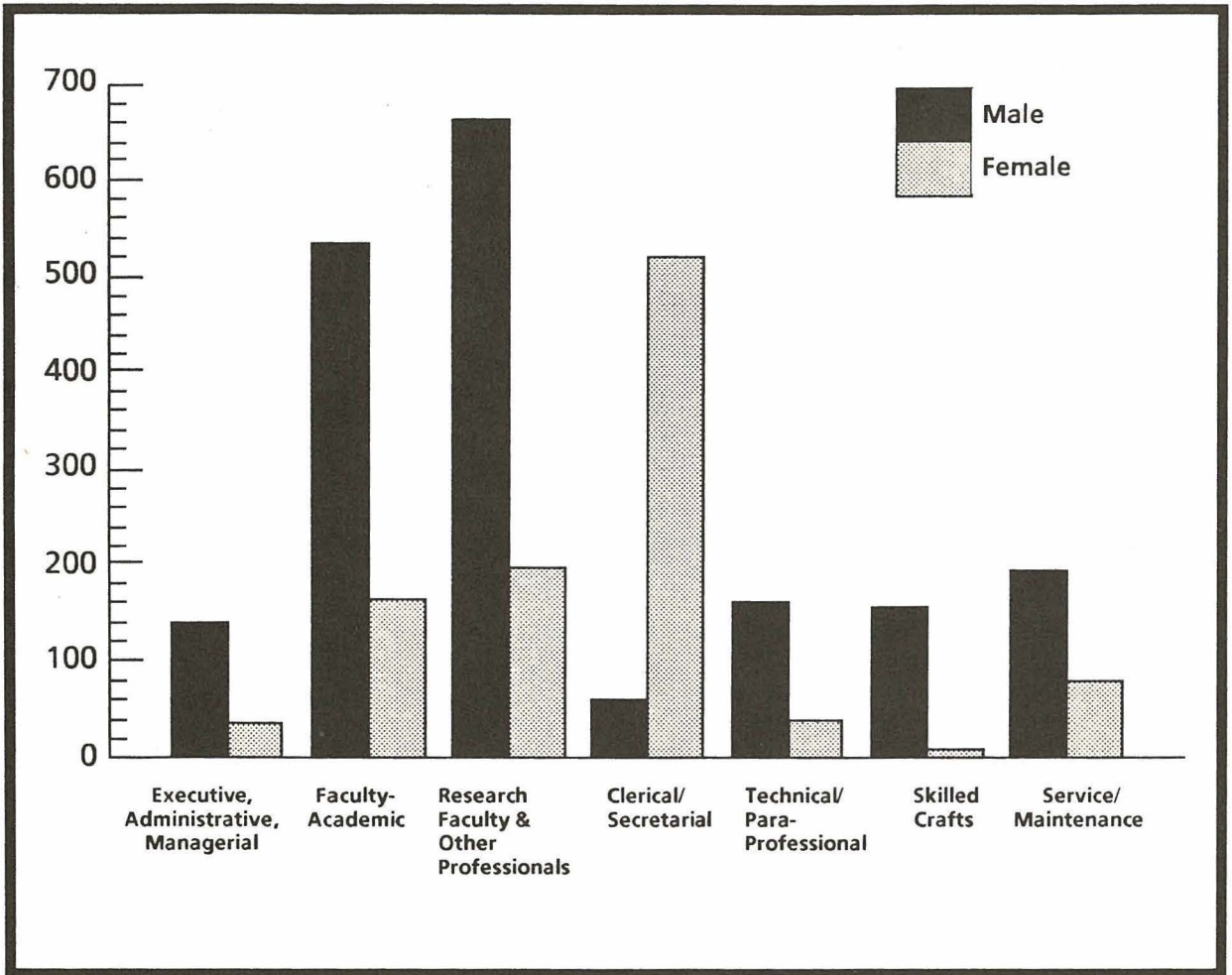
^c Includes Visiting /Adjunct Personnel

^d Engineer/Scientists/Technologist/Associate

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

Source: Vice President for Research

TOTAL EMPLOYEE PROFILE (As of March, 1983)



EEO Code	Category	White		Black		Other ^a		Total	
		Male	Female	Male	Female	Male	Female	Male	Female
1	Executive, Administrative, Managerial	133	34	7	5	0	0	140	39
2	Faculty-Academic ^b	510	86	4	11	25	1	539	98
3	Research Faculty & Other Professionals	631	177	15	19	17	2	663	198
4	Clerical and Secretarial	38	389	22	123	0	9	60	521
5	Technical and Para-Professional	150	39	9	0	2	2	161	41
6	Skilled Crafts	115	2	41	1	0	0	156	3
7	Service and Maintenance	52	10	145	70	0	0	197	80
	TOTAL	1629	737	243	229	44	14	1916	980

^aIncludes Hispanic, Asian, and Native Americans.

^bIncludes librarians with academic rank.

Source: Work Force Analysis

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 capital 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 nonprofit 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 individuals distinguished by success in their chosen profession and their long-time interest in, service to, and support of the Institute. The trustees are elected to six-year terms, with no limit on the number of terms they can serve. They meet the first Tuesday of each month except July and August. Eighteen emeritus trustees continue to advise the Foundation and actively support the Institute.

The assets of the Foundation as of June 30, 1983 were \$31,469,671. The Foundation provides monies for:

- (1) faculty salaries;
- (2) faculty professional and curriculum development;
- (3) faculty and staff recruiting;
- (4) student loans, scholarships, and fellowships, such as National Merit Scholars, National Achievement Scholars, and President's Scholars;
- (5) various other special projects.

The elected officers of the Foundation are: George W. Felker III, President; L. Travis Brannon, Jr., Vice President; and Robert H. Ferst, Treasurer.

The appointed officers who are responsible for its day-to-day administration are: Warren Heemann, Vice President; and Robert N. Leitch, Secretary.

The office of the Foundation is located on the second floor of the L. W. "Chip" Roberts Alumni/Faculty House on North Avenue.

LIBRARY

The Price Gilbert Memorial Library's scientific, engineering, architectural, and management collection includes 1,600,000 bibliographic units and 1,700,000 microtexts.

The library has a collection of over 4,300,000 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.

Over 24,000 serials, including 6,000 periodicals, are currently received, approximately 80 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. Twice daily, books and other library documents are delivered to requesting faculty. The Georgia Tech library participates in consortium with eleven 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.

INFORMATION TECHNOLOGY

OFFICE OF COMPUTING SERVICES (OCS)

The Office of Computing Services is responsible for the operation of a central computing 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 facility consists of a Control Data Corporation dual processor CYBER 170/835 and a CYBER 170/855 that share a large pool of disk storage. Coupled to these two systems is a large IBM 4341 configuration. The three CPU's within this coupled system are capable of executing about 11 million instructions per second. Attached 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 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 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 a wide variety of programming languages and subroutine libraries, a Calcomp 1039 3-pen plotter, a Versatec electrostatic plotter, and an NCS 7010 optical mark reader. Support is provided for the growing number of Personal Computers and Lanier word processors. In addition to offering a variety of seminars each quarter, special class presentations can be arranged for any instructor.

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 provide well-defined, properly oriented information systems which supply the information needs of the Administration. In meeting these needs, ISA has four broad objectives:

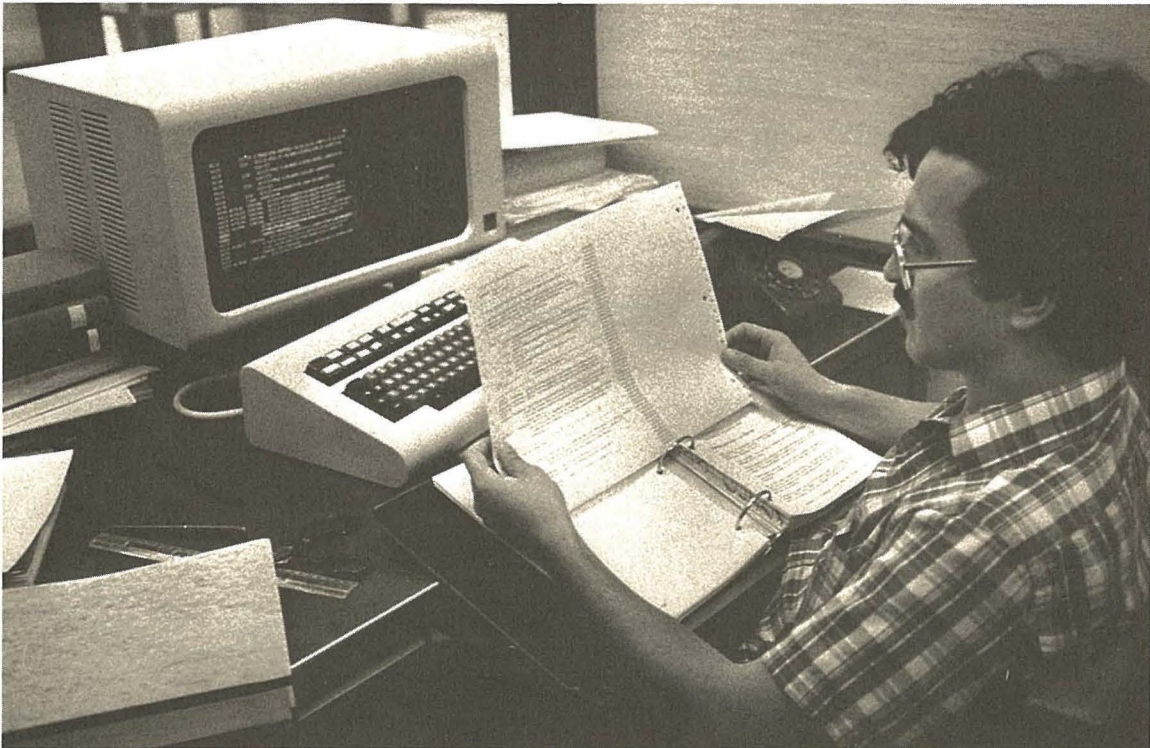
- Define the future software environment under which Tech will operate
- Find, evaluate, and implement new software packages that meet current needs
- Integrate the existing systems to achieve data administration
- Evolve to include an Information Center

INFORMATION TECHNOLOGY (continued)

OFFICE OF TELECOMMUNICATIONS AND NETWORKING (OTN)

The Office of Telecommunications and Networking was established in recognition of the increasing convergence of computer and communication technologies. OTN's major function is to coordinate telecommunication and network activities on the Georgia Tech campus. The office is responsible for identifying and analyzing services needed by Tech in connection with voice, data and video communications. OTN consists of two major departments; Services and Engineering. The Services Department determines service needs and develops the plans for implementation. The Engineering department focuses on installation and maintenance of the service.

OTN's activities include: voice telephone service, computer-to-computer communications, terminal-to-computer communications, video transmission systems, electronic mail, office automation networks, broadband computer network, national network service offerings, discipline-oriented networks and inter-university networks.



Source: Director, Computing Services

PHYSICAL FACILITIES

SQUARE FOOTAGE BY FUNCTIONAL AREA FALL, 1983

INSTRUCTION			
General Academic	<u>950,528</u>		950,528
ORGANIZED RESEARCH			
Research Center (EES)	313,611		
Individual or Project Research	<u>244,044</u>		557,655
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>720,194</u>		1,013,628
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>1,563,823</u>		<u>1,563,823</u>
GRAND TOTAL			4,526,716

Source: Vice President for Planning

CONTINUING EDUCATION

The Department of Continuing Education serves as the Institute's primary educational outreach to both the public and private sector. This department is the Institute's designated unit for non-credit instruction, provided through workshops, conferences, seminars and VideoCourses. The Department also serves the community by delivering graduate level courses and degree programs to on-site locations through the videobased instructional system.

Diverse programming includes courses in:

Management	Business and Economics
Computer Applications	Industrial Applications
Health and Safety	Applied Science
Electronics	Engineering
Energy	New Technology Issues

Program faculty come from any of the four Colleges at Georgia Tech: Engineering, Architecture, Management, and Sciences and Liberal Studies. They also come from the Engineering Experiment Station, the Advanced Technology Development Center, as well as from the various research centers in the Office of Interdisciplinary Programs.

Programs are conducted on the Georgia Tech campus, at public meeting facilities, hotels, or at company sites. Length of programs vary from one to ten days.

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 information on new ideas, issues, technologies and developments.

PROGRAM INFORMATION

<u>Number of:</u>	<u>1978-79</u>	<u>1979-80</u>	<u>1980-81</u>	<u>1981-82</u>	<u>1982-83</u>
Programs	104	106	117	163	221
Participants	4,810	4,689	4,802	4,758	6,039
States Represented*	46	49	**	48	48
Non U.S.A. Persons	415	576	**	661	580
Ga. Residents	1,504	2,101	**	2,414	3,089
Ga. Counties Represented	87	90	**	112	98
Institutional CEU's	14,355	15,911	24,877	23,913	25,627

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

**Figures not available.

Source: Director, Continuing Education

INDUSTRIAL EDUCATION

Industrial Education, a part of the Engineering Extension Program, provides public service activities to Georgia's industrial community. This department, administered by the Engineering Experiment Station, offers the resources and technical expertise at Tech to individual firms when solutions to problems are sought. A wide variety of seminars, workshops, and conferences have been provided for textile 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, which enabled one company to reduce its turnover rate from 66.6% to 21.9% in two years. Another activity involved the development of realistic training programs using analytical methods, which resulted in streamlining one firm's training program at great dollar savings. 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
Conducted by Industrial Education**

	<u>1978-79</u>	<u>1979-80</u>	<u>1980-81</u>	<u>1981-82</u>	<u>1982-83</u>
Number of Classes	193	192	221	197	156
Number of Students Enrolled	2,772	2,809	3,525	3,305	4,223
Number of Participating Plants	63	69	73	61	69
Total Pupil Hours	68,115	50,714	71,562	63,362	40,137
Certificates	1,043	1,645	1,503	1,782	797

Source: Director, Engineering Experiment Station

**RESEARCH
INFORMATION**



RESEARCH AT GEORGIA TECH

Georgia Tech is a major center for advanced technology in Georgia and the Southeast. With a full-time staff of more than 1,300 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. 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 governmental organizations and private industry. The Georgia Tech Research Institute, a non-profit organization incorporated under the laws of the State of Georgia, serves as the contract agency. It also handles patent matters.

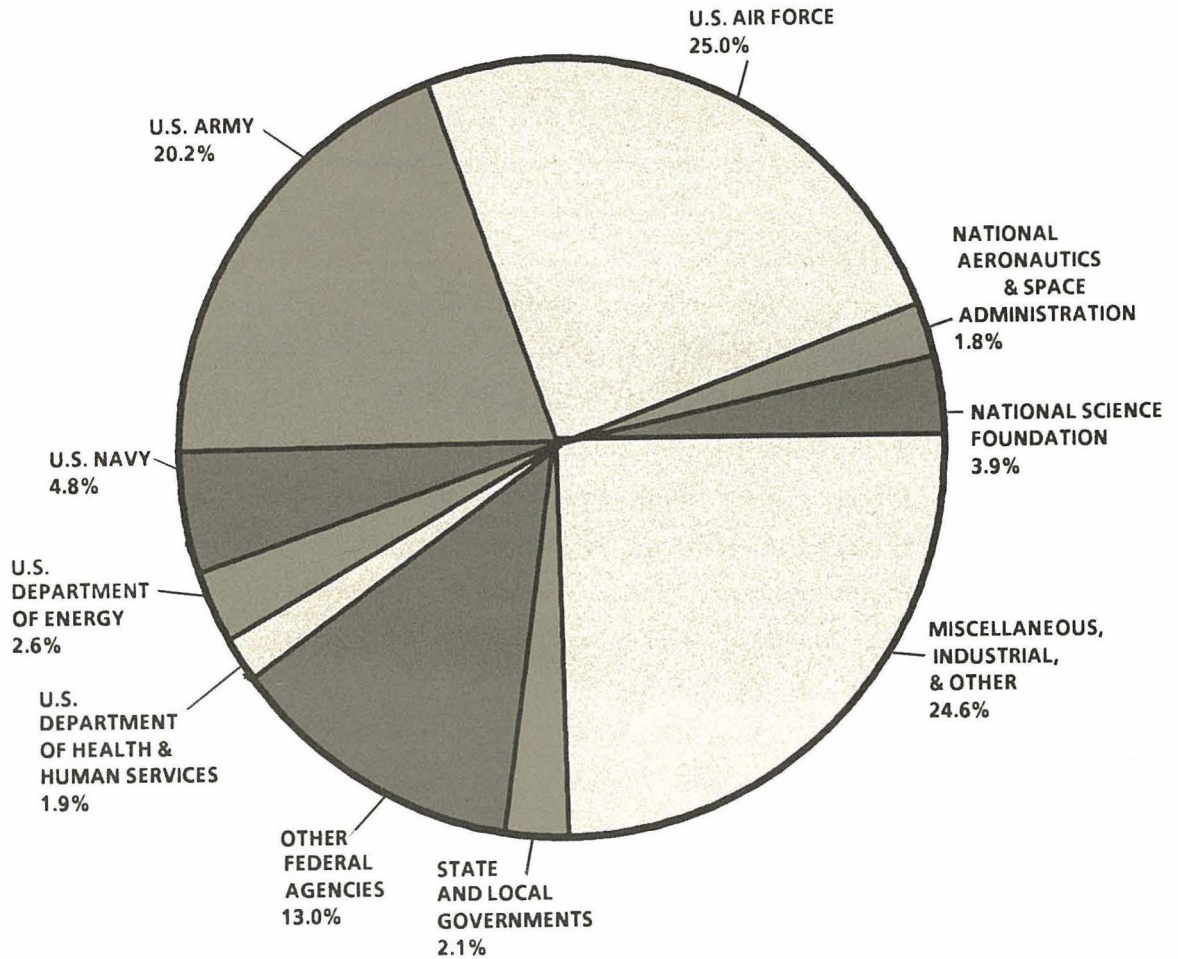
Research programs range from alternate energy research to the development of electronic defense systems to protect our nation; from economic development assistance to business and industry to the application of computer technology in a variety of settings; from analyses of systems for monitoring stratospheric 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 \$8.5 million contract with the federal government to a \$500 contract with a rural industry. There are programs with local, regional and state governments, with major 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 optics. Energy research on solar and other alternate energy forms and work on energy conservation and applications are also important areas, as well as the following: domestic and international economic development; computer technology and applications; and the fields of physical, chemical, material, earth atmospheric, and social science.

Most of the research is performed on the Georgia Tech campus, but there are a variety of off-campus facilities managed by the Engineering Experiment Station (EES). About 65% of the research and extension activities are managed by the Engineering Experiment Station and 35% are managed by academic schools and centers.

RESEARCH AT GEORGIA TECH (continued)

TOTAL SPONSORED RESEARCH As of June 30, 1983



Source: Vice President for Research

RESEARCH AT GEORGIA TECH (continued)

RESEARCH GRANTS AND CONTRACTS*

<u>AWARDING AGENCY</u>	<u>FY 1983</u>	<u>(% of Total)</u>
National Science Foundation	\$3,240,012	(3.9)
National Aeronautics & Space Administration	1,509,485	(1.8)
U. S. Air Force	20,587,259	(25.0)
U. S. Army	16,632,399	(20.2)
U. S. Navy	3,990,662	(4.8)
U. S. Department of Energy	2,139,224	(2.6)
U. S. Department of Health and Human Services	1,557,854	(1.9)
Other Federal Agencies	<u>10,691,906</u>	(13.0)
Total Federal Government	\$60,348,801	
State and Local Governments	1,730,114	(2.1)
Miscellaneous, Industrial & Other	<u>20,305,539</u>	(24.6)
GRAND TOTAL	\$82,384,454	

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

RESEARCH SUMMARY

July 1982-June 1983

<u>UNIT</u>	<u>PROPOSALS</u>		<u>AWARDS</u>	
	<u>Number</u>	<u>Amount</u>	<u>Number</u>	<u>Amount</u>
Engineering	450	\$45,781,058	256	\$11,217,350
Architecture	34	3,412,105	22	1,583,250
College of Sciences & Liberal Studies	235	34,986,071	104	9,948,624
Management	9	1,224,146	3	141,741
Research Centers	37	5,122,087	30	1,407,520
Engineering Experiment Station	<u>835</u>	<u>120,296,975</u>	<u>519</u>	<u>58,085,969</u>
TOTAL	1,600	\$210,822,422	934	\$82,384,454

FY 82-83 Awards:	\$82,384,454
FY 81-82 Awards:	\$61,727,967
FY 80-81 Awards:	\$54,016,873
FY 79-80 Awards:	\$46,423,509
FY 78-79 Awards:	\$37,419,167

Source: Vice President for Research

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 eight 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 (continued)

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 encompass 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 Center for Radiological Protection 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 (continued)

The Material 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 Center for Research in Writing addresses literacy, language use and development, and the composing process. 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.

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

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 the built environment.



Source: Director, Office of Interdisciplinary Programs

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 Engineering Experiment Station in establishing research policies and procedures. In partnership with the Office of the Vice President for Research and the Georgia Tech Research Institute (GTRI), the Office of Contract Administration (OCA) provides management support for the research program at Georgia Tech. Organizationally, the program is administered through the Office of Director and five divisions:

The Office of Director is responsible for annual overhead negotiations with the federal government. The Director's office also provides a telex and telecopier service for the campus for official Georgia Tech business. Policy and procedures are set in the Director's office and such functions as monitoring overdue deliveries for the Vice President for Research are handled here.

The Program Initiation Division (PID) assists the faculty in identifying potential funding sources by means of a weekly report entitled, "Research Opportunities." PID also serves as the central coordinating point for the entire campus for ordering and distributing RFP's (Requests for Proposal).

PID is responsible for handling 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. Further, 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. PID's contracting officers are organized to interface with specific sponsoring agencies. They have developed a certain expertise with these agencies over the years and you should contact the appropriate contracting officer for any discussions related to your proposal.

The Program Administration Division (PAD) has the responsibility of monitoring active grants and contracts. This office is organized so that each contracting officer is assigned specific departments on campus with which to interface. After an initial in-depth review of the award documents, the relevant initiation forms are prepared and distributed. Complete project files are established and maintained for the duration of each program. 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.

CONTRACT ADMINISTRATION (continued)

Liaison with the sponsor is maintained by PAD contracting officers and their support staff whose responsibility it is to monitor programs to see that potential problems in meeting contractual obligations are called to the attention of Georgia Tech management in a timely manner. Upon completion of a grant or contract, PAD facilitates close-out of the program, i.e., certification of satisfactory performance, preparation of research property records, accounting for patents and classified documents, final billing, and submission of all deliverables, as well as various 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 applications processing, and negotiation of royalty fees are other legal services provided by this division. The International Traffic in Arms Regulations (ITAR) and Export Administration Regulations (EAR) are checked for compliance assurance. 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. They work 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 commercial and U. S. Postal Service 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 for enlargements/reductions is available so that writers' concepts can be translated into plate-ready material 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: Director, Office of Contract Administration

ENGINEERING EXPERIMENT STATION



The Engineering Experiment Station (EES) 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 natural resources of Georgia; aiding industrial and economic development; and participation in national programs of science, technology, and preparedness. In performing these missions, EES is simultaneously making the maximum possible contribution to Georgia Tech's overall research, educational, and service goals.

The director of EES 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 EES and the academic schools and departments at Tech. There is also increasing involvement in the presentation of seminars and other forms of specialized training for off-campus groups.

EES is headquartered on the Georgia Tech campus where most of its staff is located. EES activities are also located at an off-campus leased facility in nearby Cobb County, as well as eight field offices located throughout the state in Albany, Augusta, Carrollton, Douglas, Gainesville, Macon, Rome, and Savannah. In addition, other groups are at Eglin Air Force Base, Florida, and

ENGINEERING EXPERIMENT STATION (continued)

Huntsville, Alabama, performing research at the sponsors' locations.

EES is organized into two major groups of laboratories by research areas, with five electronics and three resource laboratories as described briefly below:

ELECTRONICS

The five electronics laboratories have major activities in systems analysis, radar, radiometry, computers, biomedical, and communications research. A brief description of the electronics labs and their principal research areas shows the wide variety of projects underway and the skills invested in the staff and students that are needed to carry out the programs.

The **ELECTROMAGNETICS LABORATORY (EML)** is composed of three major research units: Electro-Optics; Physical Sciences; and Millimeter Wave Technology, plus an office located in Huntsville, Alabama. 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, neutrino physics, characteristics of human tooth enamel, and absorption and desorption processes in hydrogen storage alloys. One of the more important projects is the development of a radiometric system for detecting ice buildup on the space shuttle tanks.

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 bio-effects research to provide information to aid in setting personnel safety standards and in design of improved heart pacers; research on embedded computer systems, digital signal processing, security systems, computerized instrumentation, nuclear safety systems, electromagnetic scattering; and the design/development of antenna systems for adverse environments.

The **RADAR AND INSTRUMENTATION LABORATORY (RAIL)** is composed of five major units: Modeling and Simulation; Analysis; Development; Instrumentation and Measurements; and a Special Projects Office. Areas of national recognition include millimeter-wave technology,

ENGINEERING EXPERIMENT STATION (continued)

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 mobilization concepts.

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 a field office located at Eglin Air Force Base in Florida. 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 of new techniques for use with operational radar systems. Studies are also performed in the collection, processing, and analysis of electronic data.

RESOURCES

The Resources Laboratories conduct a wide variety of applied research and extension programs which include, among their principal thrusts, economic development, productivity improvement, alternative energy development and energy conservation.

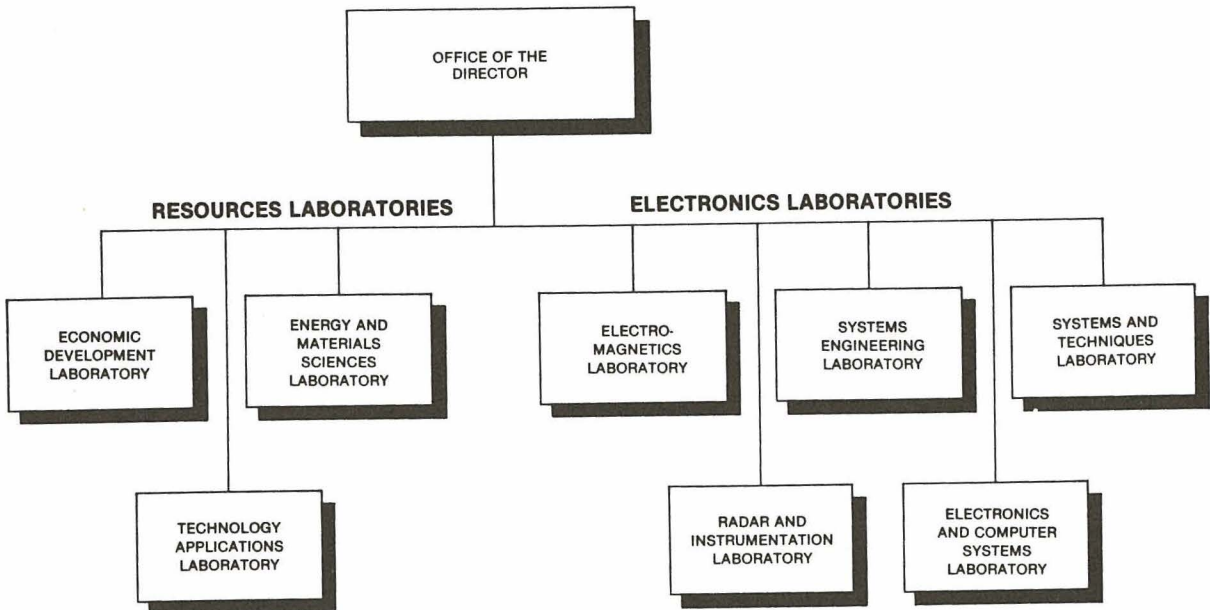
ENGINEERING EXPERIMENT STATION (continued)

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 eight 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 impact analyses have detailed practical solutions to questions surrounding the effects of energy development programs on the environment. An area of national interest has been the forecasting of end-use energy demand in the commercial sector, using models that analyze the market penetration of coal technologies and electric heat pumps.

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, wood conversion to fuels and chemicals, and operation of the Advanced Components Test Facility (Solar Test Site).

The **TECHNOLOGY APPLICATIONS LABORATORY (TAL)** is composed of several major units: Process Technology; Mechanical Systems; International Programs; and Industrial Education Department. Research is oriented toward determining and demonstrating technical feasibility in applied engineering projects. Major efforts are underway to develop ways to improve energy efficiency in industrial processes and to develop cost-effective photovoltaic systems to provide electric power for residential and industrial users. Wood energy research is directed toward improving the state of technology. International Programs deal with rural water resources, alternative energy technologies, and technology for small manufacturers.

ENGINEERING EXPERIMENT STATION (continued)



Source: Director, Engineering Experiment Station

ENGINEERING EXPERIMENT STATION PROFILE

STAFF

September 30, 1983

Regular (full-time)

Professional				580	
By Highest Degree					
Doctorates*	97		(16.7%)		
Masters	265		(45.7%)		
Bachelors	203		(35.0%)		
Other	4		(.7%)		
No Degree	11		(1.9%)		
Support				258	
Total Regular (full-time)					838

Supplementary (part-time)

Professional				26	
Support				100	
Graduate Research Assistants				72	
Co-op Students				161	
Student Assistants				109	
Total Supplementary (part-time)					468

TOTAL STAFF

1,306

*Includes 2 J.D.'s and 1 M.D.

FY-82/83 FINANCIAL DATA

Activity Level/Funding Sources

Research Contracts and Grants	\$45.6 million
Interdepartmental Services	2.6 million
State Appropriation	4.7 million
TOTAL	\$52.9 million

RESEARCH FACILITIES

Campus Research Space	231,087 sq. ft.
Off-Campus Leased Research Space	142,707 sq. ft.
TOTAL	373,794 sq. ft.
 Total Research Equipment (cost)	 \$22.5 million

Source: Director, Engineering Experiment Station

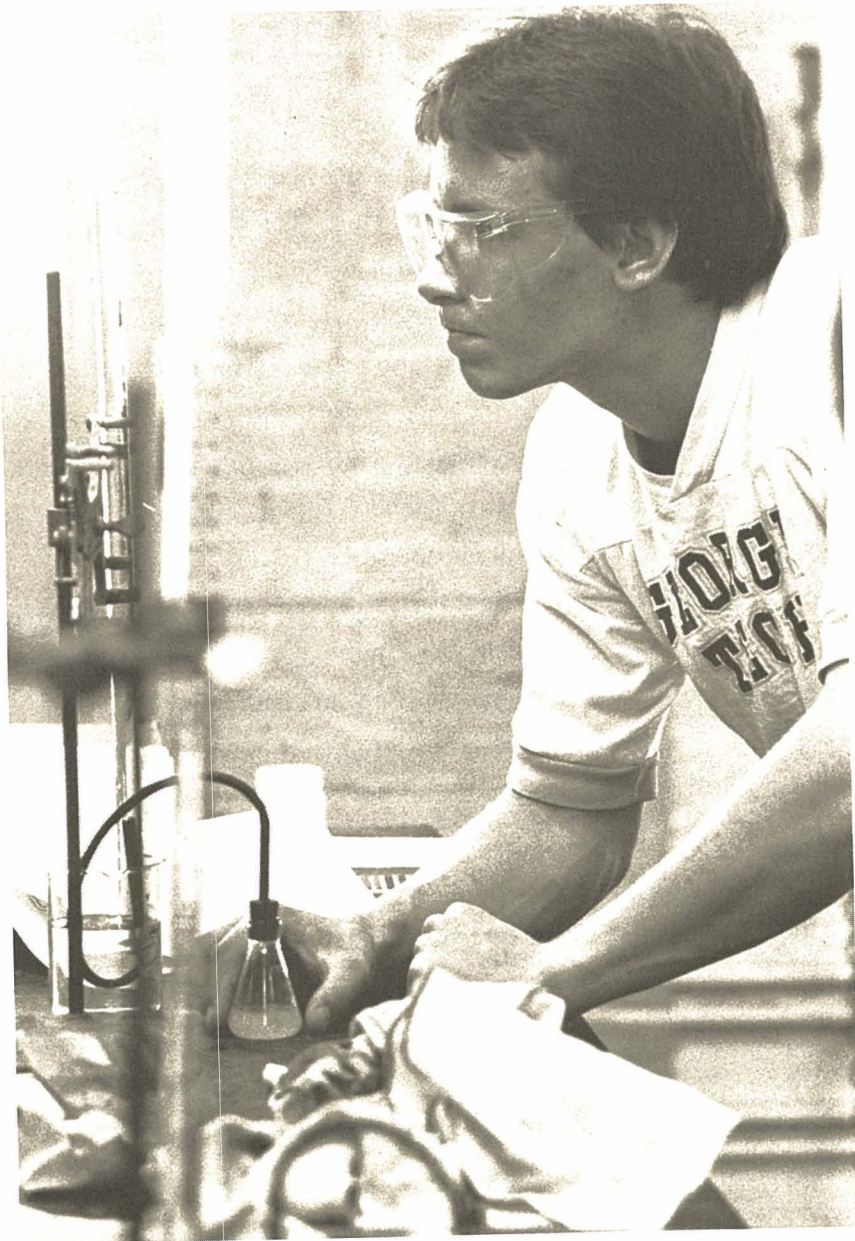
ADVANCED TECHNOLOGY DEVELOPMENT CENTER

The Advanced Technology Development Center (ATDC) was created in July of 1980 jointly by Governor George Busbee and the General Assembly. Located on the Georgia Tech campus, it serves as a catalyst for attracting and fostering high technology industrial growth in Georgia.

ATDC 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 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 will be housed in a two-building complex located on the northern edge of the Tech campus facing Tenth Street. The first building, a three-story structure containing about 45,000 square feet of space, is scheduled to be completed in 1984. The lower floor will consist of open bay areas suitable for laboratory or production use, with the upper floors designed to house administrative offices, support services and conference facilities. In addition to providing reasonably priced temporary space for developing businesses, the building will allow convenient access to Tech's library, computer center, sophisticated test equipment, and other facilities. Currently, ATDC has eleven (11) tenant firms involved in a wide range of technology based businesses.



For additional information about this publication contact:

Dr. Patricia White
Office of the Associate Vice President
for Academic Affairs
894-3311

B.B.