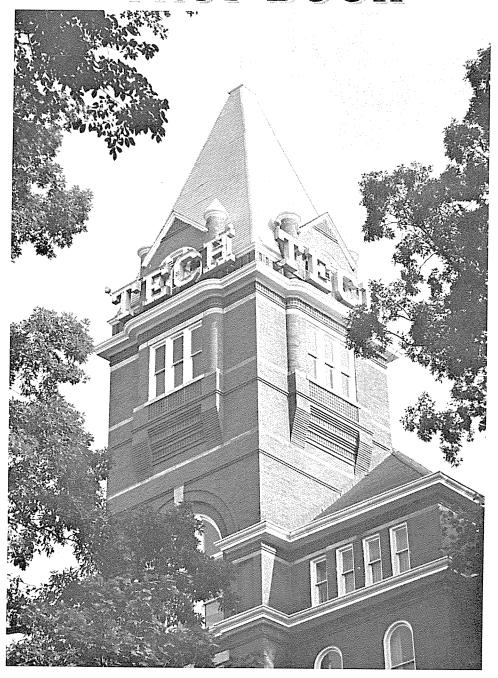
## 1988-89 FACT BOOK



Office of the Associate Vice-President Georgia Institute of Technology Atlanta, Georgia 30332-0330

Edited by Rae Adams

## Table of Contents

## 1 INTRODUCTION

- 2 Profile of Metropolitan Atlanta
- 4 The University System of Georgia
- 5 Board of Regents
- 6 Chronological Highlights of Tech
- 8 Statement of Purpose
- 9 Accreditation
- 10 Degrees Offered
- 11 Presidents of Georgia Tech
- 12 Administration
- 16 Organizational Chart
- 18 Map of the Tech Campus

## 19 STUDENT PROFILES

#### Admissions

- Freshman Profile, Fall Quarter 1988
   Fall Quarter Average Scholastic Aptitude Test Scores
- 21 Composite Scholastic Aptitude Test Scores
- Freshman Admissions, Fall Quarters 1984-88 Freshman Admissions by Gender and Ethnic Origin, Fall Quarter 1988
- Transfer Admissions, Fall Quarters 1984-88
   Transfer Admissions by Gender and Ethnic Origin, Fall
   Quarter 1988
- Graduate Admissions, Fall Quarters 1984-88
   Graduate Admissions by Gender and Ethnic Origin, Fall
   Quarter 1988
- 25 High Schools of Freshman Matriculants

### Financial Assistance

- Summary of Major Programs of Student Financial Assistance
   ROTC Scholarships
- 27 National Merit and National Achievement Scholarships President's Scholarships Program
- 28 Freshman National Achievement Scholars, 1983-88 Freshman National Merit Scholars, 1983-88
- 29 President's Scholarship Program: Seven Year Summary of Entering Freshmen; Graduates of the President's Scholarship Program
- 30 President's Scholars' Interests at Entry
- 31 Graduate Financial Assistance

## **Enrollment**

- 33 Enrollment by Residency Classification, By Non-United States Residence, Fall Quarter 1988
- 34 Enrollment by Residency Classification, By States
- 36 Enrollment by Residency Classification, By Georgia Counties
- 38 Enrollment by Class, Fall 1988 Enrollment by Class, Fall Quarters 1984-88
- 39 Undergraduate Enrollment Profile by College, Fall Quarter 1988
- 40 Graduate Enrollment Profile by College, Fall Quarter 1988
- 41 Fall Quarter Undergraduate Enrollment, By College, 1984-1988
- 43 Fall Quarter Graduate Enrollment by Degree Program, 1978-1988
- 44 Fall Quarter Graduate Enrollment, By College, 1984-1988

### Grades

- 46 Average Fall Quarter Grade Point Averages, 1979-1988
- 47 Number and Percentage Distribution of Grades by Division and College, Fall Quarter 1987

### Credit Hours

- 48 Student Credit Hours by College
- 49 Institute Totals by Academic Year

## Academic Information

- 50 Undergraduate Cooperative Program
- 51 Graduate Cooperative Program
- 52 ROTC

## Degrees

- 54 Degrees Awarded by College, 1983-1988
- 57 Five Year Summary of Degrees Awarded
- 57 Total Number of Degrees Granted by Georgia Tech (Through Spring 1988)
- 58 Degrees Awarded Summer 1987-Spring 1988
- 59 Degrees Awarded by Residency Classification, Non-United States Residency, Summer Quarter 1987-Spring Quarter 1988
- 60 Degrees Awarded by Residency Classification, By States, Summer Quarter 1987-Spring Quarter 1988
- 61 Degrees Awarded by Residency Classification, By Georgia Counties, Summer Quarter 1987-Spring Quarter 1988

## Table of Contents

### Placement

- 62 Corporate Relations and Placement
- 63 Employing Organizations' Activities at Georgia Tech, 1987-88
- 64 1987-88 Average Starting Salaries Reported by Employers
- 66 Reported Post-Graduation Plans

## 67 FACULTY/STAFF PROFILES

- 68 Chairs and Professorships
- 70 Institutions Awarding Highest Degrees to Members of the Academic Faculty
- 71 Full-Time Instructional Faculty Profile by College
- 72 Full-Time Instructional Faculty Profile by Unit
- 73 Academic Faculty Profile by Position Classification
- 74 Research Personnel Profile
- 75 Research Personnel Profile by Unit
- 76 Total Employee Profile

### 79 GENERAL INFORMATION

- 80 Matriculation and Nonresident Tuition Fees Estimated Academic Year Cost
- 81 Square Footage by Functional Area
- 82 Library
- 83 Student Services
- 85 Social Fraternities and Sororities
- 86 Student Organizations
- 89 Athletic Association
- 92 Georgia Tech Foundation
- 93 Market Value of Endowment
- 94 Support by Purpose; Sources of Support
- 95 Officers
- 96 Alumni Association
- 97 Employers of Twenty-Five or More Georgia Tech Alumni
- 98 Alumni Clubs
- 100 Geographical Distribution of Alumni
- 101 Geographical Distribution of Alumni Numbers of Living Alumni by Class Year
- 102 A Selected List of Companies Whose Chief Executive Officers or Vice-Presidents are Georgia Tech Alumni
- 103 Education Extension
- 105 Industrial Education
- 106 Center for the Enhancement of Teaching and Learning
- 107 Information Technology

### 109 FINANCES

- 110 Revenues by Source
- 113 Expenditures by Budgetary Function
- 118 Financial Data by Percentage

### 119 RESEARCH

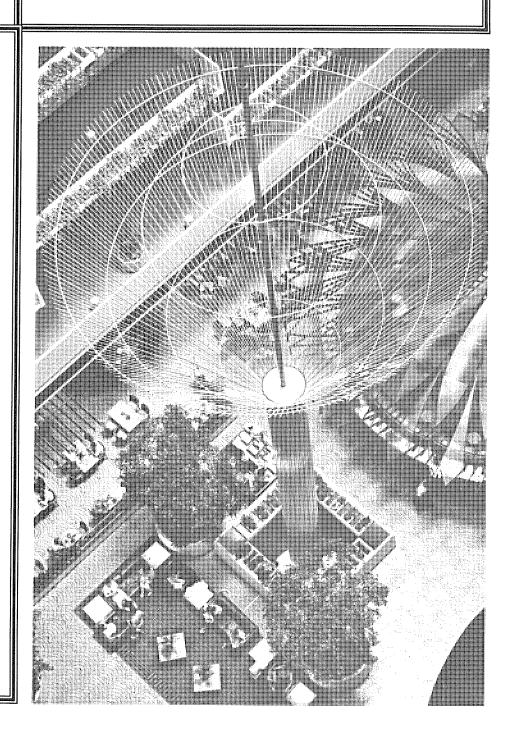
- 120 Research at Georgia Tech
- 121 Total Sponsored Research
- 122 Research Grants and Contracts FY 1987-88 By Awarding Agency Research Summary FY 82-83/FY 87-88
- 123 Research Summary by Unit, July 1987-June 1988
- 124 Contract Administration
- 126 Research Centers
- 129 Georgia Tech Research Institute
- 132 Georgia Tech Research Institute Staff GTRI FY 87-88 Financial Data GTRI Research Facilities
- 133 GTRI Organizational Chart
- 134 Advanced Technology Development Center

### 135 ACKNOWLEDGEMENTS

## INTRODUCTION

1988-89

FACT BOOK



## Profile of Metropolitan Atlanta

## **CHAMBER OF COMMERCE**

P.O. Box 1740 Atlanta, Georgia 30301 404/586-4800

### METROPOLITAN AREA

5,147 square miles; 18 counties; 96 incorporated cities and towns

### **POPULATION**

2,543,200; one of the five fastest-growing population centers in the U.S., Atlanta's population has increased 26.7% over the last decade; median age, 28.9; average disposable income, \$36,517; of the population 25 years of age and older, 20.7% have completed four or more years of college.

#### CLIMATE

Average annual temperature, 60.8° F; January monthly mean, 42.2° F; July monthly mean, 78.0° F; average annual precipitation, 48.34 inches. Cold spells are short-lived, with daily minimum temperatures seldom below freezing. Atlanta's climate permits year-round business operations with only rare work stoppages due to the weather. Its impact is also demonstrated in lower fuel, construction, and maintenance costs.

#### SELECTED NATIONAL RANKINGS

Population, 10th; Total Manufacturing Employment, 12th; Households, 9th; Enplaned Air Passengers, 2nd; Number of Residential Units Authorized by Permit, 3rd; Total Retail Sales, 10th; Net Effective Buying Income, 11th; Valuation of Total Private Nonresidential Construction, 4th; Population 35-49 Years of age, 10th; Aggregate \$ Volume, Bank Clearings, 4th; Convention cities, 3rd busiest; Wholesale Trade Sales, 8th.

## TRANSPORTATION

Aviation: Hartsfield Atlanta International Airport: twenty-five passenger airlines operate out of Hartsfield, flying direct to 122 cities; nine all-cargo carriers operate on a permanent basis and numerous others on a contractual basis. Nineteen general aviation airports throughout the metropolitan area supplement the services of Hartsfield by catering to private and charter aircraft.

Railroads: Two railway systems, the Southern Railway System and the Seaboard System; AMTRAK.

Motor Freight: Several hundred regulated "for hire" motor carriers hold certificated authority from the Interstate Commerce Commission and/or the Georgia Public Service Commission.

Intercity Buses: Three buslines, Greyhound Lines, Southeastern States, Trailways Bus System, with over 200 buses arriving and departing daily.

MARTA (Metropolitan Atlanta Rapid Transit Authority): MARTA's combined bus/rail ridership is more than 75 million annually.

### COMMUNICATIONS

Newspapers: Eight daily newspapers; over twenty-five weekly newspapers.

Television and radio: nine television stations; forty-one FCC licensed radio stations; cable service.

Telephone Service: Atlantans can call on a local basis, without any long distance charge, within a 3,300 square mile calling area that includes 1.3 million telephone lines. The area's telecommunication network is one of the most advanced in the world.

### **FACILITIES**

George L. Smith Georgia World Congress Center, which contains the largest single-floor exhibition space in the U.S.; Atlanta Civic Center, a multi-use facility with exhibition space and a performance hall; the Omni, which hosts conventions and concerts and can accommodate 18,000; 35,000 hotel and motel rooms.

### FINANCIAL SERVICES

Home of the Southeastern District Office of the Comptroller of the Currency, the Southeastern Regional Headquarters of the Federal Deposit Insurance Corporation (FDIC), the Sixth Federal Reserve District and the Fourth District of the Federal Home Loan Bank system; twenty-nine foreign banks; sixty-four commercial banks; twenty savings and loan associations; numerous securities firms, pension fund administrators, real estate investment and venture capital firms.

#### **ECONOMIC STRUCTURE**

Leading Atlanta industries are metals and machinery; transportation equipment; food and kindred products; printing and publishing; construction; lumber and furniture; textiles and apparel—a diversity indicating that Atlanta's economy is not heavily dependent on any single industry. Atlanta manufacturing activity is predominantly high value-added rather than the low value-added, labor-intensive industries found in many rural areas. Retail trade, finance, insurance, and real estate and services are important. Atlanta is increasingly an international business center. There are approximately 600 foreign-owned companies and organizations. Facilities range from sales offices to U.S. headquarters and include manufacturers, real estate interests, and warehousing/distribution operations, among others. Forty-one countries have official representation in the area through consulates and trade/tourism/development offices.

#### SHOPPING

More than 500 shopping and specialty centers and sixteen regional shopping malls totaling over twenty million square feet. The 3.8 million sq. ft. Atlanta Market Center consisting of: the Atlanta Merchandise Mart, 2.6 million square feet with over 600 permanent showrooms for wholesale dealers; Atlanta Apparel Mart, 1.2 million square feet with over 1,000 permanent showrooms; Atlanta Decorative Arts Center.

#### EDUCATION

Twenty-three public school systems, 425 kindergarten or elementary schools, 80 middle or junior high schools, 115 high schools, with approximately 400,000 students; thirty-one degree-granting colleges and universities and six junior colleges with an enrollment of approximately 95,000; six vocational-technical schools with a full-time day enrollment of approximately 11,000; over 50 proprietary business and career schools. Located throughout the area, Atlanta's private and parochial schools, totaling approximately 165 with 34,000 students, also offer a diversity of facilities and services for both average and exceptional children.

## RESEARCH & SCIENCE CENTERS AND PROGRAMS

Fernbank Science Center; Centers for Disease Control; Yerkes Regional Primate Research Center; Emory University medical research; Georgia Tech Research Institute and Georgia Tech's Advanced Technology Development Center; Georgia Research Consortium.

## Profile of Metropolitan Atlanta

#### LIBRARIES

The Atlanta Public Library System has a central library in downtown Atlanta and twenty-five branch libraries. The system makes available over one million books; three thousand films and videocassettes; a large selection of periodicals, records, cassettes, and framed art prints; and foreign-language materials. Additionally, most counties or municipalities in the metropolitan region maintain library systems. The

numerous colleges and universities in the area also maintain excellent libraries.

#### Housing

Atlanta boasts some of the most beautiful residential areas in the South, and many are close to downtown. Adding to the appeal of climate and scenic beauty is the availability of varied types of housing.

#### MEDICAL FACILITIES

Extensive hospital, research, and educational facilities make Atlanta a regional center for health care and a national center in the field of medical research.

#### RELIGION

The religious sector is a very significant facet of community life in Atlanta. There are over 1,500 churches and synagogues in the metropolitan area representing some 65 creeds and denominations. Atlanta is also the headquarters for many church organizations.

## ENTERTAINMENT

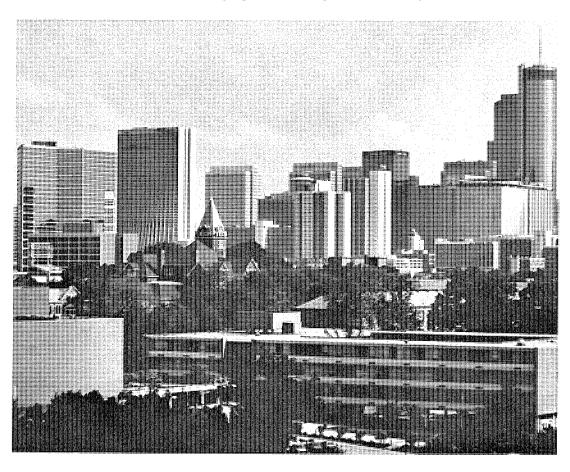
Varied attractions such as the Swan House; the Wren's Nest; Stone Mountain Memorial Park; White Water; Martin Luther King, Jr. Center for Social Change; Six Flags Over Georgia; Peachtree Center Complex; Omni Complex; Zoo Atlanta; the Cyclorama; quality restaurants; specialty shops.

## THE ARTS

Woodruff Arts Center, home to the High Museum of Art and the Atlanta Memorial Arts Building, which contains facilities for drama, dance, a symphony orchestra, and a college of art in one complex—the Atlanta Symphony Orchestra, the Alliance Theatre, the Atlanta Children's Theatre, and the Atlanta College of Art; Callanwolde interdisciplinary arts center; the Annual Arts Festival; Atlanta Symphony Orchestra free concerts in Piedmont Park in the summer; several theatre groups; professional and avocational musical groups; dance, including the Atlanta Ballet, children's troupes, modern dance groups, Company Kaye (the Southeast's only dance/mine group); a center for puppetry arts, the only facility of its type in the country.

#### Sports and Recreation

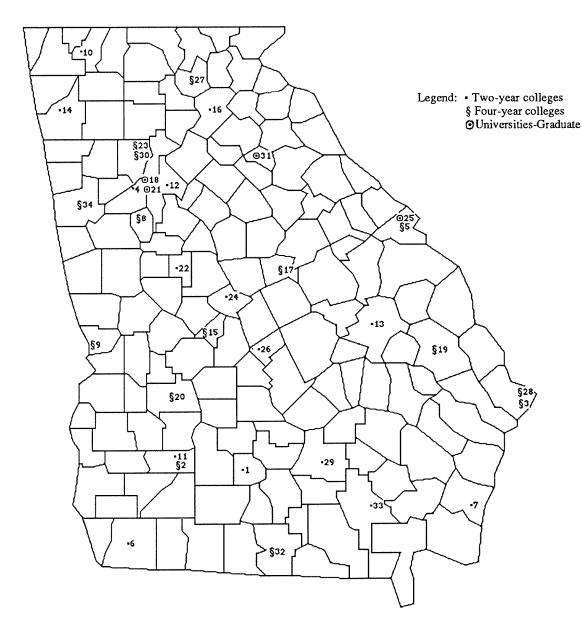
Sports: Atlanta Fulton County Stadium (major league baseball, Braves; football, Falcons) with seating for 59,000; the Omni Coliseum, home of the Atlanta Hawks (basketball); collegiate athletic competitions; auto races and road racing; motorcycle racing; golf tournaments; several major tennis tournaments; an annual steeplechase and hunterjumper horse show; professional motorcycle and motorcross events.



Recreation Facilities: Lake Lanier and Lake Allatoona; Chattahoochee River; over thirty golf courses; over 180 tennis courts; nearby Appalachian Trail; Cohutta Wilderness Area (at 34,000 acres the largest natural wilderness area in the eastern U.S.); and ski resorts.

Source: Atlanta Chamber of Commerce: Atlanta Facts; Atlanta MSA: Growth Statistics

## The University System of Georgia



THE UNIVERSITY SYSTEM OF GEORGIA

- 1 Abraham Baldwin Agricult. Coll., Tifton
- 2 Albany State College, Albany
- 3 Armstrong State College, Savannah
- 4 Atlanta Metropolitan College, Atlanta
- 5 Augusta College, Augusta
- 6 Bainbridge College, Bainbridge
- 7 Brunswick College, Brunswick
- 8 Clayton State College, Morrow
- 9 Columbus College, Columbus
- 10 Dalton College, Dalton
- 11 Darton College, Albany

- 12 DeKalb College, Decatur
- 13 East Georgia College, Swainsboro
- 14 Floyd College, Rome
- 15 Fort Valley State College, Fort Valley
- 16 Gainesville College, Gainesville
- 17 Georgia College, Milledgeville
- 18 Georgia Institute of Technology, Atlanta 29
- 19 Georgia Southern College, Statesboro
- 20 Georgia Southwestern College, Americus 31
- 21 Congra Southwestern Conege, Americ
- 21 Georgia State University, Atlanta
- 22 Gordon College, Barnesville

- 23 Kennesaw State College, Marietta
- 24 Macon College, Macon
- 25 Medical College of Georgia, Augusta
- 26 Middle Georgia College, Cochran
- 27 North Georgia College, Dahlonega
- 28 Savannah State College, Savannah
- 29 South Georgia College, Douglas
- 30 Southern Coll. of Technology, Marietta
- 31 University of Georgia, Athens
- 32 Valdosta State College, Valdosta
- 33 Waycross College, Waycross
- 34 West Georgia College, Carrollton

Source: 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 and includes all state-operated universities, four-year colleges and two-year colleges in Georgia. The system, now in its sixth decade of operation, offers programs of instruction, research, and public service designed to benefit the entire population of the state. These programs are conducted through the various institutions and institution-related agencies.

The Board of Regents of the University System of Georgia is composed of fifteen members appointed by the Governor and confirmed by the Senate for seven-year terms. One member is appointed from each of the ten congressional districts, and five are appointed from the state-at-large. The Board of Regents exercises broad jurisdiction over all institutions of the University System of Georgia and establishes policies and procedures under which they operate. The Board receives all state appropriations for the University System and allocates these appropriations to the institutions and institution-related agencies. While the Board engages in both policy-making and administrative functions, each unit of the System has a high degree of academic and administrative autonomy.

The Chancellor of the University System, the chief administrative officer of the System, is appointed by the Board as its chief executive officer and serves at the Board's pleasure. The Chancellor has broad discretionary power for executing the resolutions, policies, and rules and regulations adopted by the Board for the operation of the University System.

The System currently includes thirty-four institutions: four universities, fifteen four-year colleges and fifteen two-year colleges. These institutions are both individually distinctive and interrelated. They are geographically dispersed so that approximately ninety-six percent of the people in Georgia reside within thirty-five miles of at least one university or college. The distribution of institutions appears on page 4.

Source: Office of the Board of Regents

#### ----

## STAFF OF THE BOARD OF REGENTS

H. Dean Propst Chancellor David S. Spence Executive Vice Chancellor Henry G. Neal **Executive Secretary** Jacob H. Wamsley Vice Chancellor—Fiscal Affairs & Treasurer Anne Flowers Vice Chancellor-Academic Affairs Frederick O. Branch Vice Chancellor-Facilities Thomas E. Daniel Vice Chancellor-External Affairs Vice Chancellor—Services and Minority Affairs Arthur Dunning James B. Mathews Vice Chancellor—Information Technology Thomas F. McDonald Vice Chancellor—Student Services Haskin R. Pounds Vice Chancellor—Research & Planning Cathie Mayes Hudson Assistant Vice Chancellor-Planning T. Don Davis Assistant Vice Chancellor-Fiscal Affairs/Personnel Richard Osburn Assistant Vice Chancellor-Academic Affairs Gordon M. Funk Assistant Vice Chancellor—Fiscal Affairs— Accounting Systems and Procedures Assistant Vice Chancellor-Affirmative Action Mary Ann Hickman H. Guy Jenkins, Jr. Assistant Vice Chancellor-Facilities Thomas E. Mann Assistant Vice Chancellor-Facilities David M. Morgan Assistant Vice Chancellor—Academic Affairs Roger Mosshart Assistant Vice Chancellor—Fiscal Affairs—Budgets Assistant Vice Chancellor-Academic Affairs J. Pete Silver

Assistant Vice Chancellor--Research

## Board of Regents

MEMBERSHIP AND TERMS OF APPOINTMENT OF THE BOARD OF REGENTS

John Henry Anderson, Jr. State-at-Large, 1983-1990

Deen Day Smith State-at-Large, 1988-1995

Joseph D. Greene Chair State-at-Large, 1984-1991

Barry Phillips State-at-Large, 1988-1995

Carolyn D. Yancey State-at-Large, 1985-1992

Arthur M. Gignilliat, Jr. First District, 1983-1990

William T. Divine, Jr. Second District, 1982-1989

William B. Turner Third District, 1986-1993

Jackie M. Ward Fourth District, 1984-1991

Elridge W. McMillan Fifth District, 1982-1989

Edgar L. Rhodes Vice-Chair Sixth District, 1985-1992

W. Lamar Cousins Seventh District, 1987-1994

Thomas H. Frier, Sr. Eighth District, 1985-1992

James E. Brown Ninth District, 1987-1994

John W. Robinson, Jr. Tenth District, 1986-1993

Joseph J. Szutz

## Chronological Highlights of Tech

- 1882 Harry Stillwell Edwards publishes an editorial in the Macon Telegraph and Messenger urging the establishment of a polytechnic college. Nathaniel E. Harris, a state legislator from Macon who is later to be known as "the father of Georgia Tech," introduces in the Georgia Legislature are solution to create a committee to investigate the feasibility of a technical school in Georgia. The resolution is approved.
- 1885 On 13 October the Georgia Legislature passes a bill appropriating \$65,000 to found a technical school. This date is considered Tech's "birthday."
- 1886 Atlanta is chosen as the location for the Georgia School of Technology.
- 1887 Developer Richard Peters donates four acres of land known as Peters Park to the new school.
- 1888 The Academic Building (in use today as the Administration Building) is completed. Georgia Tech opens for classes on 8 October, with the School of Mechanical Engineering and departments of Chemistry, Mathematics, and English. By January 1889, 129 students register to work toward the only degree offered, the Bachelor of Science in Mechanical Engineering.
- 1890 Tech graduates its first two students.
- 1892 Tech fields its first football team.
- 1896 The Schools of Civil Engineering and Electrical Engineering are established.
- 1899 The A. French Textile School is established.
- 1901 The School of Chemical Engineering is established. The Athletic Association is organized.
- 1903 John Heisman becomes the school's first full-time football coach.
- 1904 The Department of Modern Languages is established.
- 1906 The School of Chemistry is established. Andrew Carnegie donates\$20,000 to build a library.
- 1907 The Carnegie Library opens.
- 1908 Tech's Night School opens. Fulton County grants an organizational charter to the Georgia Tech Alumni Association. The first edition of the annual, the *Blueprint*, appears. The Department of Architecture is established.
- 1910 The first official band is formed.
- 1911 The Technique, the weekly student newspaper, begins publication.
- 1912 The Cooperative Education Department is established to coordinate work-study programs.
- 1913 The School of Commerce, forerunner of the College of Management, is established.
- 1916 The Georgia Tech Student Association is established.
- 1917 The Department of Military Science is established. The Evening School of Commerce admits its first woman student.

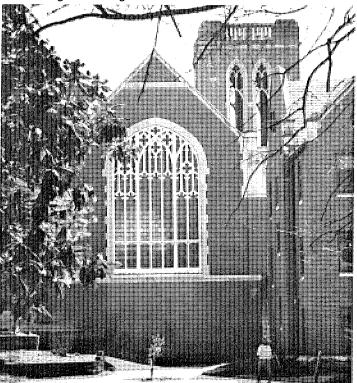
- 1918 Tech joins the National Collegiate Athletic Association (NCAA). Senior units of the Coast Artillery and Signal Corps of the Reserve Officer Training Corps (ROTC) are established. The school and alumni launch the Greater Georgia Tech fund-raising campaign.
- 1919 The Legislature authorizes the Engineering Experiment Station.
- 1920 The national Alumni Association convenes its first meeting. George P. Burdell, Tech's long-lived mythical student, begins "attending" class.
- 1921 Tech becomes a charter member of the Southern Intercollegiate Conference.
- 1923 The Georgia Tech Alumnus magazine begins publication. The Alumni Association begins an alumni placement service. Tech is elected to the Southern Association of Colleges and Universities. A radio station is presented to Tech; the Institute receives an FCC license in 1924 to operate the station, whose call letters become WGST in 1925.
- 1924 The School of Ceramics is established.
- 1925 Tech awards its first Master of Science degrees.
- 1926 Tech establishes a Naval ROTC unit. The Department of Naval Science is established.
- 1930 The Daniel Guggenheim School of Aeronautics is established.
- 1931 The Georgia Legislature creates the University System of Georgia.
- 1932 The Board of Regents of the University System assumes control of all state public schools, including Tech. The Georgia Tech Alumni Foundation holds its first meeting.
- 1934 The Department of Management is established. The Engineering Experiment Station begins engineering research projects.
- 1938 The Industrial Development Council (forerunner of the Georgia Tech Research Corporation) is created to be the contractual agency for the Engineering Experiment Station.
- 1939 The School of Physics is established.
- 1942 The Department of Physical Education and Recreation is established.
- 1945 Tech becomes the first institution to provide low-cost married housing to GI Bill students. The School of Industrial and Systems Engineering is established.
- 1946 Tech adopts the quarter system.
- 1948 The Board of Regents authorizes Tech to change its name to the Georgia Institute of Technology. Southern Technical Institute opens as a branch of Tech. The Department of Architecture becomes the School of Architecture; the Department of Management becomes the School of Industrial Management; the School of Social Sciences is established.
- 1949 The YMCA-sponsored, student-maintained World Student Fund is created to support a foreign student program.
- 1950 The Department of Air Science (now Air Force Aerospace Studies)

## **Chronological Highlights of Tech**

- is established. Tech awards its first Doctor of Philosophy degree.
- 1952 The School of Mathematics is established. The Board of Regents votes to make Tech coeducational. The first two women students enroll in the fall quarter.
- 1954 The Georgia Tech Alumni Foundation becomes the Georgia Tech Foundation.
- 1955 The Rich Electronic Computer Center begins operation.
- 1956 Tech's first two women graduates receive their degrees.
- 1957 The Georgia Legislature grants Tech \$2.5 million for a nuclear reactor.
- 1959 The School of Engineering Science and Mechanics and the School of Psychology are established.
- 1960 The School of Applied Biology is established.
- 1961 Black students are admitted to Tech. Tech is the first major state university in the Deep South to desegregate without a court order. The new Southern Tech campus in Marietta is opened.
- 1962 The School of Nuclear Engineering is established.
- 1963 The School of Information and Computer Science is established.

  Tech is the first institution in the United States to offer the master's degree in information science. The Water Resources Center is created. Renamed the Environmental Resources Center in 1970, it now functions as the Water Resources Research Institute of Georgia.
- 1964 Tech leaves the Southeastern Conference (SEC).
- 1965 Compulsory ROTC ends.
- 1969 The School of Industrial Management becomes the College of Management. The Bioengineering Center is established in conjunction with Emory University.
- 1970 Southern Tech is authorized to grant four-year degrees. The School of Geophysical Sciences is established.
- 1975 The name of the General College is changed to the College of Sciences and Liberal Studies, and the School of Architecture becomes the College of Architecture. The Georgia Legislature designates the Engineering Experiment Station as the Georgia Productivity Center. Georgia is the first state to designate such a center to encourage business productivity. Tech joints the Metro-6 athletic conference.
- 1977 The Center of Radiological Research is formed to coordinate research in health physics.
- 1978 Georgia Tech joins the Atlantic Coast Conference (ACC). The Georgia Mining Resources Institute, linked to the U.S. Bureau of Mines, is formed. The Fracture and Fatigue Research Laboratory is formed.
- 1979 The Computational Mechanics Center is formed.
- 1980 Southern Tech becomes an independent four-year college of engineering technology. Center for Rehabilitation Technology is formed. Higher Education Management Institute study is begun.

- 1981 The Advanced Technology Development Center, the Technology Policy and Assessment Center, and the Microelectronics Research Center are established.
- 1982 The Materials Handling Research Center, Center for Architecture Conservation, Center for Excellence in Rotary Wing Aircraft, and Communication Research Center are established.
- 1983 The Research Center for Biotechnology is created. The Long Range Plan is begun.



- 1984 The Engineering Experiment Station changes its name to the Georgia Tech Research Institute. Georgia Tech's contract corporation changes its name from the Georgia Tech Research Institute to the Georgia Tech Research Corporation. The Graduate Cooperative Program is formed to include graduate students in Tech's work-study program.
- 1985 The School of Ceramic Engineering incorporates the Metallurgy program to form the School of Materials Engineering. The Georgia Legislature authorizes \$15 million to fund the Center for Excellence in Microelectronics. The Centennial Campaign begins.
- 1986 The Center for the Enhancement of Teaching and Learning, and the College of Architecture Construction Research Center are established.
- 1987 The Georgia Tech/Emory University Biomedical Technology Research Center is established. The School of Engineering Science and Mechanics is incorporated into the School of Civil Engineering.
- 1988 Dr. John P. Crecine, Tech's ninth president, proposes a restructuring of the institute to meet the technological needs of the 21st.century

Source: Office of Publications; Office of the Associate Vice-President

## Statement of Purpose

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

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

humanities and social sciences in order to provide a liberal education sensitive to the total human condition.

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

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

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



## Institutional Accreditation

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

\*\*\*

## **Professional Accreditation**

The Accreditation Board for Engineering and Technology has accredited the four-year engineering curricula leading to bachelor's degrees in the following fields: aerospace engineering, ceramic engineering, chemical engineering, civil engineering, electrical engineering, engineering science and mechanics, industrial engineering, mechanical engineering, nuclear engineering, and textile engineering; and to graduate programs leading to master's degrees in the fields of metallurgical engineering and environmental engineering.

The American Chemical Society has certified the curriculum leading to the bachelor's degree in chemistry. The program leading to the Bachelor of Science in Information and Computer Science is accredited by the Computing Sciences Accreditation Board.

In the College of Architecture, the program leading to the Bachelor of Science in Industrial Design has been reviewed and recognized by the Industrial Designers Society of America. The National Architectural Accrediting Board has accredited the curriculum leading to the Master of Architecture.

The Master of City Planning degree program has been accredited by the Planning Accreditation Board.

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

## Accreditation

that organization. These programs include: Bachelor of Science in Management, Bachelor of Science in Management Science, Bachelor of Science in Economics, and Master of Science in Management.

Source: Office of the Associate Vice-President



## Degrees Offered

Curricula are offered leading to Bachelor's degrees in the following disciplines:

Science

## In the College of Architecture:

Building Construction Industrial Design

## In the College of Engineering:

Aerospace Engineering
Ceramic Engineering
Chemical Engineering
Civil Engineering
Computer Engineering
Electrical Engineering
Engineering Science & Mechanics
Health Physics
Industrial Engineering
Materials Engineering
Mechanical Engineering
Nuclear Engineering
Textiles
Textile Chemistry
Textile Engineering

## In the College of Management:

Economics Management Management Science

## In the College of Sciences and Liberal Studies:

Applied Biology
Applied Mathematics
Applied Physics
Applied Psychology
Chemistry
Information & Computer Science
Physics

Programs of study and research leading to Master's degrees are offered in the following disciplines:

## In the College of Architecture:

Architecture City Planning

## In the College of Engineering:

Aerospace Engineering Ceramic Engineering Chemical Engineering Civil Engineering Electrical Engineering Engineering Science & Mechanics Environmental Engineering Health Physics Health Systems Industrial & Systems Engineering Mechanical Engineering Metallurgical Engineering Nuclear Engineering Operations Research Textile Chemistry Textile Engineering **Textiles** 

## In the College of Management:

Management Statistics

## In the College of Sciences and Liberal Studies:

Applied Biology
Applied Mathematics
Applied Physics
Atmospheric Sciences
Chemistry
Geophysical Sciences
Information & Computer Science
Physics
Polymers
Psychology
Technology & Science Policy

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

## In the College of Architecture:

Architecture

## In the College of Engineering:

Aerospace Engineering
Ceramic Engineering
Chemical Engineering
Civil Engineering
Electrical Engineering
Engineering Science & Mechanics
Environmental Engineering
Health Physics
Industrial & Systems Engineering
Mechanical Engineering
Metallurgy
Nuclear Engineering
Operations Research
Textile Engineering

## In the College of Management:

Economics Management

## In the College of Sciences and Liberal Studies:

Applied Biology
Atmospheric Sciences
Chemistry
Geophysical Sciences
Information & Computer Science
Mathematics
Physics
Psychology

## Presidents of Georgia Tech

## PRESIDENTS OF GEORGIA TECH

Isaac S. Hopkins 1888-1896

Lyman Hall 1896-1905

Kenneth G. Matheson 1906-1922

Marion L. Brittain 1922-1944

Colonel Blake R. Van Leer 1944-1956

Paul Weber Acting President, 1956-1957

> Edwin D. Harrison 1957-1969

Vernon Crawford Acting President, 1969-1969

> Arthur G. Hansen 1969-1971

James E. Boyd Acting President, 1971-1972

Joseph M. Pettit 1972-1986

Henry C. Bourne, Jr. Acting President, 1986-87

John Patrick Crecine 1987-present

Source: Office of the President



DR. JOHN PATRICK CRECINE

On 1 November 1987, Dr. John Patrick [Pat] Crecine assumed the leadership of Georgia Tech as the Institute's ninth president. Crecine holds a B.S. (1961) in Industrial Management, and an M.S. (1963) and Ph.D. (1966) in Industrial Administration from Carnegie-Mellon University.

After receiving his doctorate, Crecine held positions at the U.S. Department of Commerce, the U.S. Bureau of Budget, the Rand Corporation, and the University of Michigan where he was professor of political science and sociology and founding director of the Institute of Public Policy Studies. In 1976, he became dean of the College of Humanities and Social Sciences at Carnegie-Mellon and was professor of political economy. From 1983 until his appointment as Georgia Tech's president, Crecine served as Carnegie-Melon's senior vice-president for Academic Affairs.

### Office of the President

John Patrick Crecine

Thomas E. Stelson Executive Vice-President

E. Jo Baker Associate Vice-President/Faculty Records

President

David J. McGill Director, Center for the Enhancement of Teaching and Learning

William H. Hitch Director, Cooperative Division

Homer C. Rice Executive Assistant to the President/Athletics

Ronald M. Bell Assistant to the President/Georgia Tech Research Corporation

John B. Carter Assistant to the President/Alumni Relations

Demetrius T. Paris Special Assistant, Office of the President/Vice-President Research Administration

Linda Martinson Executive Assistant, Office of the President

Barbara E. Walsh Director, Financial Analysis

vacant Director, Institutional Planning and Institutional Research

Norman J. Johnson Special Assistant, Office of the President/Academic Human Resources

Donald L.W. Bratcher Director, Human Relations

William J. Gamble, Jr. Director, Minority Educational Development

John H. Friedmann Special Assistant to the President

## College of Architecture

William L. Fash

Dean

John A. Kelly A. Frank Beckum Associate Dean Assistant Dean

## A. Haik Dockuii Assis

## College of Engineering

William M. Sangster

Dean

W. Denney Freeston, Jr.

Associate Dean

Don P. Giddens Ronald W. Rousseau J. Edmund Fitzgerald Director, School of Aerospace Engineering Director, School of Chemical Engineering Director, School of Civil Engineering

Roger Webb

Acting Director, School of Electrical Engineering Director, School of Industrial & Systems Engineering

Michael E. Thomas Stephen A. Antolovich

Director, School of Materials Engineering

Ward Winer

Director, School of Mechanical Engineering

Fred L. Cook

Director, School of Textile Engineering

## Georgia Tech Research Institute

Donald J.Grace

Director

Gerald J. Carey Robert G. Shackelford Associate Director Associate Director Associate Director

James C. Wiltse P.J. O'Hare

Assistant Director
Director, Economic Development Laboratory

David S. Clifton, Jr.

Director, Electromagnetics Laboratory

Devon G. Crowe Fred L. Cain

Director, Electronics & Computer Systems Laboratory Director, Energy & Materials Sciences Laboratory

Hans O. Spauschus Edward K. Reedy Charles K. Watt

Robert P. Zimmer

Director, Energy & Materials Sciences Laboratory
Director, Radar & Instrumentation Laboratory
Director, Systems & Techniques Laboratory
Director, Systems Engineering Laboratory

### College of Management

Gerald J. Day

Dean

Andrew J. Cooper III

Assistant Dean

Robert E. Green

Director, Undergraduate Program

Charles W. Mulford

Director, Master's Program

Charles W. Mullole Charles K. Parsons

Director, Ph.D. Program

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Les A. Karlovitz

Dean

Thomas G. Tornabene

Director, School of Applied Biology

Robert A. Pierotti

Director, School of Chemistry and Biochemistry

William L. Chameides

Director, School of Geophysical Sciences

Alton P. Jensen

Acting Director, School of Information & Computer Science

Shui-Nee Chow

Director, School of Mathematics

Edward W. Thomas

Director, School of Physics

Anderson D. Smith Daniel S. Papp

Director, School of Psychology Director, School of Social Sciences

Colonel Larry J. Rubenstein Thomas M. Callaway

Head, Department of Air Force ROTC Head, Department of Army ROTC

Elizabeth Evans

Head, Department of Army RO's Head, Department of English

Heidi M. Rockwood

Head, Department of Modern Languages

Gregory Colson

Head, Department of Music

Captain Donald Abbey James A. Reedy

Head, Department of Navy ROTC Head, Department of Physical Education & Recreation

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Acting Vice-President

Britain J. Williams, Jr.

Acting Director, Computing Services

Ray Spalding Gary G. Watson

Associate Director, Computing Services
Director, Information Systems and Applications

James R. Woolen

Associate Director, Information Systems and Applications

Alton Hoover, Jr.

Director, Research Computing Support Center

## Interdisciplinary Programs

Albert P. Sheppard, Jr.

Vice-President for Interdisciplinary Programs

Frederick A. Rossini

Director, Interdisciplinary Programs, and Director, Technology Policy and Assessment Center

Ajit Yoganathan

Co-Director, Bioengineering Center

Don P. Giddens Alan L. Porter Co-Director, Georgia Tech/Emory University Biomedical Technology Research Center Co-Director, Technology Policy and Assessment Center

James C. Toler

Co-Director, Bioengineering Center and Director, Center for Rehabilitation Technology

Stephen Antolovich

Director, Mechanical Properties Research Laboratory Director, Center for the Advancement of Computational Mechanics

Satyanadham Atluri

Director, Georgia Mining and Minerals Resources Institute

Michael J. Matteson

Director, Georgia William and Willierals Resources institute

D.M. Herold

Interim Director, Center on Work Performance Problems

Daniel P. Schrage

Director, Center of Excellence in Rotary Wing Aircraft Technology

Richard J. Higgins Bernd Kahn Director, Microelectronics Research Center Director, Environmental Resources Center

E.P. Ellington

Director, Environmental Resources Center
Director, Georgia Productivity Center

John H. Myers Justin Myrick Director, Center for Architectural Conservation Director, Health Systems Research Center

Weston Stacey

Director, Fusion Research Center
Director, Research Center for Biotechnology

Thomas G. Tornabene Ira Pence

Director, Research Center for Biotechnology
Director, Materials Handling Research Center

Ratib A. Karam

Director, Nuclear Research Center

Frederick Rossini

Interim Director, Software Engineering Research Center

## Interdisciplinary Programs continued

Louis Circeo Director, Construction Research Center

M.W. Thomas Interim Director, Manufacturing Engineering Research Center Shui-Nee Chow Director, Center for Dynamical Systems and Nonlinear Studies

### Student Affairs

James E. Dull Vice-President/Dean of Student Affairs

Edwin P. Kohler Associate Vice-President/Student Affairs
Carole E. Moore Assistant Vice-President/Student Affairs

Steven C. Leist Assistant to the Vice-President/Fratemity Affairs, Student Organizations

Sophia S. Wright Assistant to the Vice-President/Handicapped and Non-Traditional Student Services

Trudy K. Wheeler Assistant to the Vice-President/FASET

W. Miller Templeton Director, International Student Services and Programs

Russ Terwilliger Director, Counseling & Career Planning

Gary J. Schwarzmueller

Roger E. Wehrle

J. Nicholas Gordon

Director, Housing

Director, Student Center

Director, Student Health

### Office of the Registrar

Frank E. Roper, Jr. Registrar

William F. Leslie Associate Registrar
Jerry L. Hitt Director, Admissions

Curley Williams Acting Director, Financial Aid

Annette Satterfield Director, Records
M. Jo McIver Director, Registration

James L. Garner Director, Undergraduate Recruiting

## Library

Miriam A. Drake Dean and Director
Helen R. Wiltse Associate Director

## **Business & Finance**

Richard Fuller, Jr. Vice-President

C. Evan Crosby Associate Vice-President/Finance

Delores Gaddis Director, Purchasing John Gibson Director, Personnel H. T. Marshall Director, Internal Auditing John Stone Director, Property Control Billy B. Portwood Director, Budgets Jack Vickery Director, Campus Safety Roger E. Wehrle Director, Auxiliary Services David V. Welch Director, Grants and Contracts Michael J. Brandon Director, Financial Data Management

## Research Administration

Demetrius T. Paris Vice-President

Gary W. Poehlein Associate Vice-President, Graduate Studies and Research, and Dean, Graduate Studies

Helen E. Grenga Assistant Vice-President for Graduate Studies and Research

### **Facilities**

Clyde D. Robbins

Vice-President for Facilities Director, Plant Operations

James L. Priest Jack P. Fenwick

Director, Design and Construction

## Office of Communications and Development

Cecil R. Phillips

Acting Vice-President

Mary E. Stoffregen Patrick J. McKenna Director for Accounting and Administration Secretary, Georgia Tech Foundation, Inc.

### Communications

Cecil R. Phillips

Associate Vice-President Director, Civic Affairs Director, News Bureau

Thomas K. Hamall Charles E. Harmon Patricia Grindel

Assistant Director, Publications

Thomas L. Vitale

Director, Special Projects

### Development

Charles E. Gearing

Associate Vice-President

John B. Carter, Jr.

Director for Development/Alumni Giving

Catherine C. Inabnit

Director for Development/Parents and Faculty Programs

vacant

Director for Development/Special Gifts

William T. Lee Linda W. McNay Director for Development/Planned Giving Acting Director for Development

Jeffrey Plank

Associate Director for Development/Foundation Relations

Mary Kay Murphy

Director for Development/Friends Program

John Hannabach

Director for Development/Corporate Relations and Placement

Michael C. Polak

Director /Joint Tech-Georgia Development Fund

Laura Zipperer

Associate Director for Development/Records and Research

Rosita Jackson

Assistant Director/Placement

## **Education Extension Services**

Clifford R. Bragdon

Associate Vice-President, Education Extension Services

George H. Adams Charles Pope Associate Director
Associate Director, Finance

Charles Windish

Acting Director, Foreign Language Institute

Steven Hottman

Acting Director, Institute for Planning/Operational Analysis

## Office of Contract Administration

J. W. Dees Director

Jack V. Dell

Associate Director

## **Advanced Technology Development Center**

Richard T. Meyer

Director

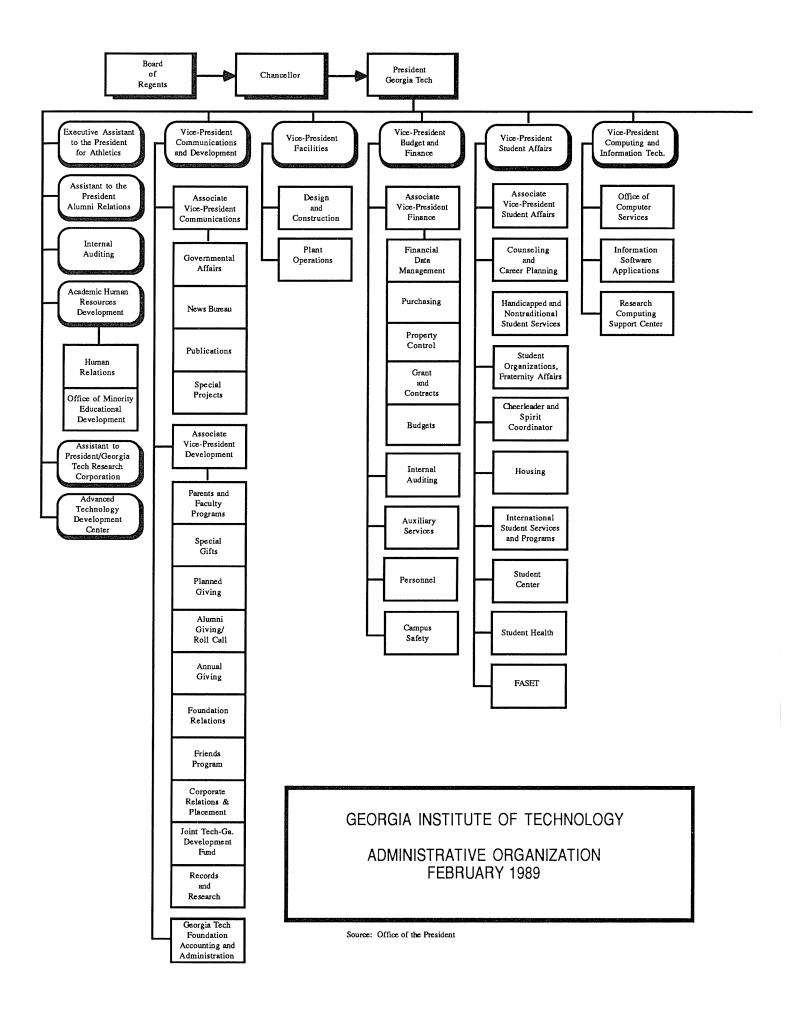
H. Wayne Hodges

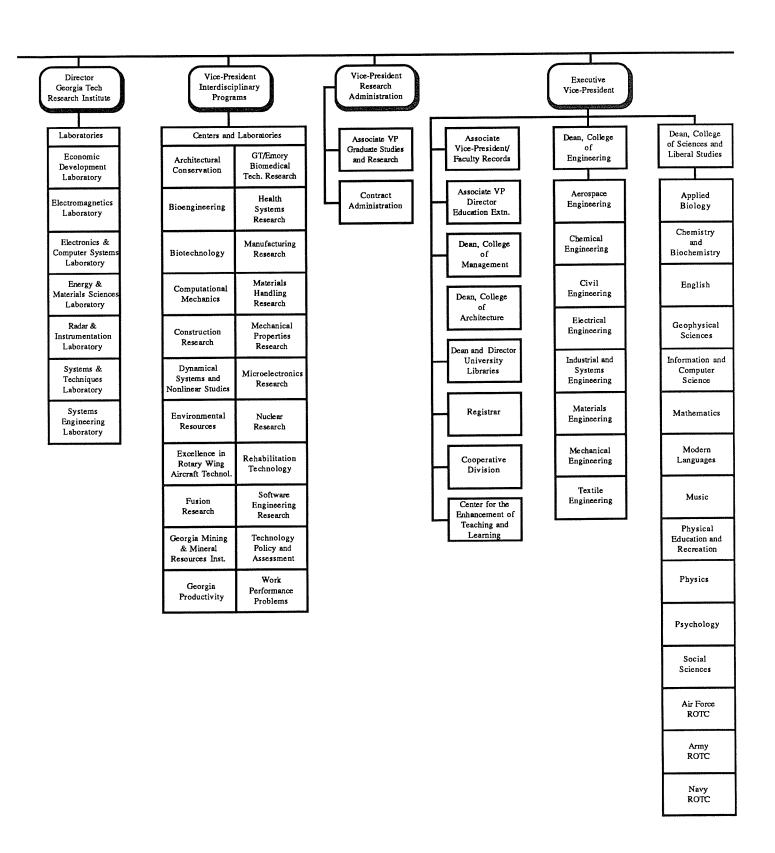
Associate Director

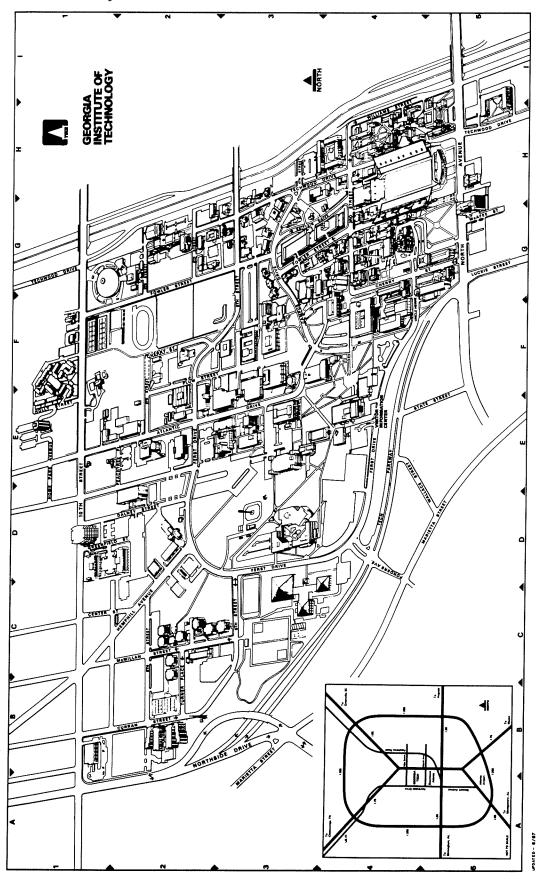
W. Darrell Gertsch

Associate Director

Source: Office of the President







# STUDENT PROFILES

1988-89

FACT BOOK



## Freshman Profile

## FRESHMAN PROFILE, FALL QUARTER 1988

	SAT*	SAT	High School		% Public	% Private
Percentile	Verbal	Math	Average	Decile	Schools**	Schools**
90	656	744	4.0	Тор	78	62
80	619	717	3.9	2nd	17	20
70	589	695	3.8	3rd	4	6
60	569	676	3.8	4th	1	4
50	548	657	3.7	5th	1	7
40	530	640	3.6	6th	0	1
30	505	622	3.5	7th	0	0
20	480	601	3.3	8th	0	0
10	448	567	3.1	9th	0	0
				10th	0	0
Average	544	651	3.6		·	v

## **FALL 1983**

Percentile	SAT Verbal	SAT Math	High School Average	Decile
90	641	735	4.0	Тор
80	596	704	3.9	2nd
70	567	682	3.8	3rd
60	548	662	3.7	4th
50	526	638	3.6	5th
40	507	619	3.5	6th
30	487	597	3.4	7th
20	464	569	3.2	8th
10	428	540	3.0	9th
Average	524	632	3.5	

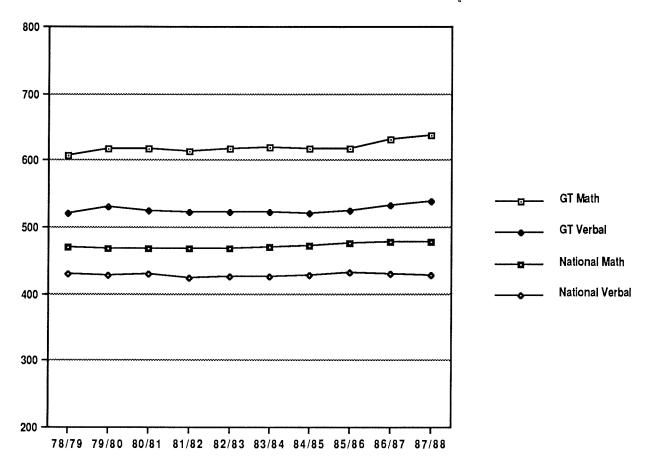
<sup>\*</sup>Scholastic Aptitude Test

## FALL QUARTER AVERAGE SCHOLASTIC APTITUDE TEST SCORES

YEAR	VERBAL	MATH	TOTAL
1988	544	651	1195
1987	550	656	1206
1986	541	646	1187
1985	535	638	1173
1984	532	636	1168
1983	524	632	1156
1982	530	630	1160
1981	530	628	1158
1980	531	631	1162

<sup>\*\*86%</sup> of freshmen from public schools; 14% from private schools

## **Composite Scholastic Aptitude Test Scores**



## AVERAGE SCHOLASTIC APTITUDE TEST COMPOSITE SCORES FOR ENTERING FRESHMEN

## GEORGIA TECH CUMULATIVE ENROLLMENT AVERAGE SAT\*

## NATIONAL AVERAGE SAT\*

	VER	BAL	MA	TH	TOTAL	VER	BAL	MA	TH	TOTAL
YEAR	Male	Female	Male	Female		Male	Female	Male	Female	
1987-88	542	534	656	616	1188	435	422	498	455	904
1986-87	535	528	649	610	1174	435	425	500	453	906
1985-86	526	521	634	600	1151	437	426	501	451	906
1984-85	526	513	631	601	1147	433	420	495	449	897
1983-84	521	525	636	600	1149	430	420	493	445	893
1982-83	522	523	634	598	1149	431	421	493	443	893
1981-82	525	520	631	593	1147	430	418	492	443	890
1980-81	523	527	630	602	1148	428	420	491	443	890
1979-80	529	530	634	599	1153	431	423	493	443	894
1978-79	518	525	621	590	1134	433	425	494	444	897

<sup>\*</sup>Scholastic Aptitude Test

## Freshman Admissions

## FRESHMAN ADMISSIONS, FALL QUARTERS 1984-88

YEAR & COLLEGE	NUMBER Applied	NUMBER Accepted	% OF APPLIED ACCEPTED	NUMBER ENROLLED	% OF APPLIED ENROLLED	% OF ACCEPTED ENROLLED
FALL 1984						
Architecture	281	162	58%	89	32%	55%
Engineering	3,365	2,470	73%	1,205	36%	49%
COSALS	925	653	71%	294	32%	45%
Management	351	215	61%	125	36%	58%
Institution	4,922	3,500	71%	1,713	35%	49%
FALL 1985						
Architecture	324	180	56%	96	30%	53%
Engineering	3,345	2,448	73%	1,221	37%	50%
COSALS	857	646	75%	315	37%	49%
Management	395	252	64%	162	41%	64%
Institution	4,921	3,526	72%	1,794	36%	51%
FALL 1986						
Architecture	389	165	42%	91	23%	55%
Engineering	4,239	2,573	61%	1,207	28%	47%
COSALS	935	601	64%	286	31%	48%
Management	552	296	54%	159	29%	54%
Institution	6,115	3,635	59%	1,743	29%	48%
FALL 1987						
Architecture	498	225	45%	94	19%	42%
Engineering	4,244	2,696	64%	1,216	29%	45%
COSALS	1,010	624	62%	284	28%	46%
Management	609	322	53%	162	27%	50%
Institution	6,361	3,867	61%	1,756	28%	45%
FALL 1988						
Architecture	489	246	50%	116	24%	47%
Engineering	4,203	2,813	67%	1,251	30%	45%
COSALS	875	572	65%	247	28%	43%
Management	561	308	55%	172	31%	56%
Institution	6,171	3,956	64%	1,796	29%	45%

## FRESHMAN ADMISSIONS BY GENDER AND ETHNIC ORIGIN, FALL QUARTER 1988

	NUMBER Applied	NUMBER Accepted	% OF APPLIED ACCEPTED	NUMBER ENROLLED	% OF APPLIED ENROLLED	% OF ACCEPTED ENROLLED
Asian	432	254	59%	106	25%	42%
Black	690	298	43%	129	19%	43%
Hispanic	252	117	46%	46	18%	39%
Indian	10	4	40%	3	30%	75%
White	4,771	3,276	69%	1,506	32%	46%
Male	4,733	3,005	63%	1,367	29%	45%
Female	1,422	942	66%	423	30%	45%

## Transfer Admissions

## TRANSFER ADMISSIONS, FALL QUARTERS 1984-88

YEAR & COLLEGE	NUMBER Applied	NUMBER Accepted	% OF APPLIED ACCEPTED	NUMBER ENROLLED	% OF APPLIED ENROLLED	% OF ACCEPTED ENROLLED
FALL 1984						
Architecture	72	30	42%	22	31%	73%
Engineering	645	366	57%	258	40%	70%
COSALS	166	91	55%	65	39%	71%
Management	80	45	56%	35	44%	78%
Institution	963	532	55%	380	39%	71%
FALL 1985						
Architecture	70	25	36%	16	23%	64%
Engineering	612	313	51%	243	40%	78%
COSALS	160	79	49%	57	36%	72%
Management	98	54	55%	46	47%	85%
Institution	940	471	50%	362	39%	77%
FALL 1986						
Architecture	93	37	40%	29	31%	78%
Engincering	610	298	49%	216	35%	72%
COSALS	210	102	49%	80	38%	78%
Management	115	56	49%	41	36%	73%
Institution	1,028	493	48%	366	36%	74%
FALL 1987						
Architecture	87	19	22%	14	16%	74%
Engineering	558	300	54%	229	41%	76%
COSALS	154	63	41%	47	31%	75%
Management	105	51	49%	40	38%	78%
Institution	904	433	48%	330	37%	76%
FALL 1988						
Architecture	75	27	36%	20	27%	74%
Engineering	513	269	52%	197	38%	73%
COSALS	160	88	55%	73	46%	83%
Management	93	37	40%	33	35%	89%
Institution	861	433	50%	333	39%	77%

## TRANSFER ADMISSIONS BY GENDER AND ETHNIC ORIGIN, FALL QUARTER 1988

	NUMBER Applied	NUMBER Accepted	% OF APPLIED Accepted	NUMBER Enrolled	% OF APPLIED ENROLLED	% OF ACCEPTED ENROLLED
Asian	54	25	46%	15	28%	60%
Black	127	45	35%	40	31%	89%
Hispanic	36	9	25%	6	17%	67%
Indian	0	0	_	0		
White	644	354	55%	272	42%	77%
Male	640	323	50%	257	40%	80%
Female	221	110	50%	76	34%	69%

## Graduate Admissions

## GRADUATE ADMISSIONS, FALL QUARTERS 1984-88

YEAR & COLLEGE	NUMBER Applied	NUMBER Accepted	% OF APPLIED ACCEPTED	NUMBER ENROLLED	% OF APPLIED ENROLLED	% OF ACCEPTED ENROLLED
FALL 1984						
Architecture	216	121	52%	82	38%	68%
Engineering	1,328	823	62%	425	32%	52%
COSALS	611	292	47%	139	23%	48%
Management	191	138	72%	65	34%	47%
Institution	2,346	1,374	59%	711	30%	52%
FALL 1985						
Architecture	215	106	49%	74	34%	70%
Engineering	1,452	825	57%	426	29%	52%
COSALS	571	270	47%	126	22%	47%
Management	185	119	64%	71	38%	60%
Institution	2,423	1,320	54%	697	29%	53%
FALL 1986						
Architecture	268	161	60%	88	33%	55%
Engineering	1,666	899	54%	501	30%	56%
COSALS	790	382	48%	181	23%	47%
Management	234	144	62%	89	38%	62%
Institution	2,958	1,586	54%	859	29%	54%
FALL 1987						
Architecture	269	126	47%	81	30%	64%
Engineering	1,803	936	52%	502	28%	54%
COSALS	774	319	41%	170	22%	53%
Management	221	116	52%	78	35%	67%
Institution	3,067	1,497	49%	831	27%	56%
FALL 1988						
Architecture	211	76	36%	55	26%	72%
Engineering	1,874	914	49%	452	24%	49%
COSALS	931	312	34%	151	16%	48%
Management	226	120	53%	77	34%	64%
Institution	3,333	1,469	44%	758	23%	52%

## GRADUATE ADMISSIONS BY GENDER AND ETHNIC ORIGIN, FALL QUARTER 1988

	NUMBER APPLIED	NUMBER ACCEPTED	% OF APPLIED ACCEPTED	NUMBER ENROLLED	% OF APPLIED ENROLLED	% OF ACCEPTED ENROLLED
Asian	1,464	330	23%	138	9%	42%
Black	196	63	32%	32	16%	51%
Hispanic	135	67	50%	39	29%	58%
Indian	1	1	100%	1	100%	100%
White	1,537	1,008	66%	548	36%	54%
Male	2,754	1,180	43%	606	22%	51%
Female	579	289	50%	152	26%	53%

## High Schools of Freshman Matriculants

## HIGH SCHOOLS WITH FIVE OR MORE STUDENTS MATRICULATING AS ENTERING FRESHMEN, FALL QUARTER 1988

	Freshmen	SEATTLE TO ENTER THE CONTROL OF THE	Freshmen
High School	Matriculating	High School	Matriculating
Lassiter High School, Marietta GA	45	Redan High School, Stone Mountain GA	8
George Walton Comprehensive High School, Marietta GA	. 40	Stratford Academy, Macon GA	8
Wheeler High School, Marietta GA	35	Tift County High School, Tifton GA	8
Brookwood High School, Snellville GA	33	Winter Park High School, Winter Park FL	8
Henderson High School, Chamblee GA	25	Benjamin E. Mays High School, Atlanta GA	7
Norcross High School, Norcross GA	25	Campbell High School, Fairburn GA	7
Crestwood High School, Atlanta GA	21	Cross Keys High School, Atlanta GA	7
Heritage High School, Conyers GA	21	Darlington School, Rome GA	7
Lakeside High School, Atlanta GA	21	Lithonia High School, Lithonia GA	7
Sprayberry Senior High School, Marietta GA	21	Newnan High School, Newnan GA	7
Tucker High School, Tucker GA	21	Northside High School, Warner Robins GA	7
Parkview High School, Lilburn GA	19	Riverwood High School, Atlanta GA	7
Roswell High School, Roswell GA	19	Towers High School, Decatur GA	7
Peachtree High School, Atlanta GA	18	Chattooga High School, Summerville GA	6
Saint Pius X Catholic High School, Atlanta GA	18	Clarke Central High School, Athens GA	6
Evans High School, Evans GA	17	Colegio San Ignacio, Rio Piedras PR	6
Campbell High School, Smyrna GA	15	Effingham County High School, Springfield GA	6
Clarkston High School, Clarkston GA	15	Forest Park Senior High School, Forest Park GA	6
Marist School, Atlanta GA	15	Glynn Academy, Brunswick GA	6
North Cobb High School, Acworth GA	15	Greater Atlanta Christian, Norcross GA	6
North Springs High School, Atlanta GA	15	Hardaway High School, Columbus GA	6
Chamblee High School, Chamblee GA	14	Irmo High School, Columbia SC	6
Westside High School, Augusta GA	14	LaGrange High School, LaGrange GA	6
Dunwoody High School, Dunwoody GA	13	Meadowcreek High School, Norcross GA	6
Fayette County High School, Fayetteville GA	13	North Carolina School of Science & Math, Durham NC	6
Jonesboro Senior High School, Jonesboro GA	13	North Fulton High School, Atlanta GA	6
Rockdale County High School, Conyers GA	13	South Cobb High School, Austell GA	6
Westover High School, Albany GA	13	Southwest DeKalb High School, Decatur GA	6
Milton High School, Alpharetta GA	12	Alexander Comprehensive High School, Douglasville GA	5
North Clayton Senior High School, College Park GA	12	Auburn High School, Auburn AL	5
Sequoyah High School, Doraville GA	12	Baldwin High School, Milledgeville GA	5
Shamrock High School, Decatur GA	12	Brentwood High School, Sandersville GA	5
Griffin High School, Griffin GA	11	Carrollton High School, Carrollton GA	5
McEachern High School, Powder Springs GA	11	Cedar Shoals High School, Athens GA	5
Robert L. Osborne High School, Marietta GA	11	Chamberlain High School, Tampa FL	5
Stone Mountain High School, Stone Mountain GA	11	Etowah High School, Woodstock GA	5
Cherokee High School, Canton GA	10	First Presbyterian Day School, Macon GA	5
Grissom High School, Huntsville AL	10	Hephzibah High School, Hephzibah GA	5
McIntosh High School, Peachtree City GA	10	Jones County High School, Gray GA	5
Morrow Senior High School, Morrow GA	10	Lake Braddock Secondary School, Burke VA	5
Shiloh High School, Lithonia GA	10	Lakeview-Fort Oglethorpe High School, Fort Oglethorpe G	
Stephens County High School, Toccoa GA	10	Martin County High School, Stuart FL	5
Duluth High School, Duluth GA	9	Mount De Sales High School, Macon GA	5
Riverdale Senior High School, Riverdale GA	9	Myers Park High School, Charlotte NC	5
Augustus R. Johnson High School, Augusta GA	8	North Gwinnett High School, Suwanee GA	5
Berkmar High School, Lilburn GA	8	Paulding County High School, Dallas GA	5
Central Gwinnett High School, Lawrenceville GA	8	R.E. Lee Institute, Thomaston GA	5
Dalton High School, Dalton GA	8	Rabun County High School, Tiger GA	5
Forsyth County High School, Cumming GA	8	Valdosta High School, Valdosta GA	5
Gainesville High School, Gainesville GA	8	West Rome High School, Rome GA	5
Henry County High School, McDonough GA	8	Westminster School for Boys, Atlanta GA	5
Lithia Springs Comprehensive High School, Lithia Springs	GA 8	Woodward Academy, College Park GA	5

## Financial Assistance

## SUMMARY OF MAJOR PROGRAMS OF STUDENT FINANCIAL ASSISTANCE

	1986-87		1987-88	
	NUMBER OF	AMOUNT OF	NUMBER OF	<b>AMOUNT OF</b>
	AWARDS	AWARDS	AWARDS	AWARDS
GEORGIA TECH AWARDS				
National Direct Student Loans	1,063	\$884,389	947	\$698,640
Supplementary Ed. Oppor. Grants	585	233,848	566	228,403
College Work-Study Program	142	215,000	266	170,000
Pell Grants	882	1,146,995	980	1,225,231
Subtotal Federal Funds	2,672	\$2,480,232	2,719	\$2,322,274
Georgia Tech National Merit	309	\$253,094	330	\$278,717
Georgia Tech National Achievement	29	33,502	24	29,385
Subtotal Merit/Achievement	338	\$286,596	354	\$308,102
Institutional Scholarships	1,558	\$1,904,732	1,806	\$2,214,188
Georgia Tech Long Term Loans	1	1,000	1	1,200
Short Term Loans	1,269	1,139,171	1,199	1,139,050
Emergency Loans	51	9,755	56	14,660
Subtotal Georgia Tech	2,879	\$3,054,658	3,062	\$3,369,098
SUBTOTAL GEORGIA TECH AID	5,889	\$5,821,486	6,135	\$5,999,474
OUTSIDE AWARDS				
Georgia Incentive Scholarships	731	\$268,725	1,002	\$349,142
Georgia Governor's Scholarships	176	214,000	232	275,834
Miscellaneous Scholarships	888	1,044,964	881	1,043,630
Miscellaneous Grants	39	49,991	22	9,252
Guaranteed Loans—Georgia	981	2,055,097	1,002	2,512,435
Guaranteed Loans—Other States	1,041	2,424,769	968	2,856,859
Miscellaneous Loans	46	87,312	43	73,966
Plus Loans—Georgia	47	139,733	22	71,615
Plus Loans—Other States	45	129,418	11	30,162
SUBTOTAL OUTSIDE AID	3,994	\$6,414,009	4,183	\$7,222,895
TOTAL	9,883	\$12,235,495	10,318	\$13,222,369

Source: Office of the Director, Financial Aid

## ROTC SCHOLARSHIPS: 1988-89 Academic Year

ROTC Scholarships pay tuition, academic fees, books, and a \$100 monthly subsistence payment. Currently, the scholarship is worth \$4,050 per year to Georgia residents and \$7,750 to non-residents.

Average Number of Students on Scholarship	Total Amount of Scholarships
380	\$2,400,000

Source: Office of the Commanding Officer, Navy ROTC

## Financial Assistance

## NATIONAL MERIT AND NATIONAL ACHIEVEMENT SCHOLARSHIPS

For the 1987-88 academic year, Georgia Tech enrolled 340 Merit Scholars\* and 36 Achievement Scholars\*. These students are selected through national competition based on their Preliminary Scholastic Aptitude Test scores. The Scholars are selected without regard to financial need; however, the values of individual awards are determined by the financial circumstances of the Scholars' families. For the 1987-88 school year, Georgia Tech ranked seventh in the nation in National Merit freshman enrollment and tenth in National Achievement standing. Georgia Tech continues to rank number one among public schools in the percentage of both National Merit and National Achievement freshmen enrolled.

\* See page 28 for additional statistics regarding these programs.

Source: Office of the Director, Financial Aid

\*\*\*\*

foundations, and individuals, as well as state and federal governments, provide a wide spectrum of scholarship, grant, loan, and work awards for deserving Georgia Tech students. During the 1987-88 academic year, the funds available to our students grew by more than \$986,874 and represent the largest year of activity in the history of the Financial Aid Office. During the 1987-88 year, over\$13.2 million was distributed to Georgia Tech students.

Private industry, businesses.

## PRESIDENT'S SCHOLARSHIP PROGRAM

In 1981, the Georgia Institute of Technology awarded President's Scholarships\*\* for the first time, honoring exceptional young people with high intellectual talents, outstanding leadership ability, and a desire to meet the challenge of the future. President's Scholars are expected to represent the ideal of excellence at Georgia Tech. For the 1988-89 academic year, 290 students are enrolled in the program.

Scholarship winners are selected on the basis of SAT scores (1350 or above for Georgia residents, 1400 or above for nonresidents), high school record, activities and accomplishments, a personal essay, and written statements of qualifications by one high school mathematics or science teacher and one humanities teacher and personal interviews. Georgia residents are selected first by a District Committee of distinguished Georgia Tech alumni and then by the President's Scholarship Committee.

Finalists and their parents are invited to the campus to meet the Scholarship Committee, other administrators, students, and members of the faculty.

Prior to enrolling at Georgia Tech, the President's Scholars have established excellent academic and civic records through participation in a variety of extracurricular and honors programs. Many of the Scholars have been recognized in the Governor's Honors Program, National Honor Society, National Merit or Achievement Scholars, and STAR Student Program. Typical of their activities and awards are the Academic Bowl Team, Georgia Tech Distinguished Mathematics and Science Scholar, Debate Team, Computer Club, Chess Club, student newspaper editor, Harvard Model United Nations, Eagle Scouts, National Problemsolving Bowl, Student Council, and Georgia Society of Professional Engineers. These scholars have made an impact on the Tech campus. For example, the 1987-88 president and vice president of the undergraduate student body were President's Scholars.

Awards made under the President's Scholarship Program may be renewed annually for a maximum of four years or until the first undergraduate degree is obtained. Renewal of the scholarship requires that the scholar maintain a strong academic record. In addition to the monetary awards, the program offers many other perquisites.

The President's Scholarship Program is funded by contributions from industry, Georgia Tech alumni and other friends, as well as endowments created by the M & H Ferst Foundation (the Robert H. Ferst Scholarships), Southern Railway (the D. William Brosnan Scholarships), and Boeing Commercial Airplane Company (the David C. Garrett, Jr., Scholarships).

\*\* See pages 29 and 30 for additional statistics regarding this program.

Source: Office of the Associate Vice-President

## NAS NMS

## FRESHMAN NATIONAL ACHIEVEMENT SCHOLARS, 1983-88

Numerical Rank 1987-88	Institute	Туре	83-84	84-85	85-86	86-87	87-88
1	Harvard/Radcliffe Colleges	Private	40	57	57	54	63
2	Stanford University	Private	30	28	30	31	34
3	Princeton University	Private	26	27	24	20	30
4	Yale University	Private	17	24	26	26	27
5	M.I.T.	Private	29	23	17	16	26
6	University of Texas	Public	26	47	37	17	22
7	Duke University	Private	13	9	12	18	20
8	Howard University	Private	10	14	13	23	19
9	Northwestern	Private	14	16	14	8	18
10	GEORGIA TECH	Public	28	24	21	27	16

## 1987-88 NATIONAL ACHIEVEMENT SCHOLARS AS A PERCENTAGE OF FRESHMAN CLASS, PUBLIC SCHOOLS

Institute	Freshman	Achlevement	Percentage of
	Enrollment	Scholars	Freshman Class
GEORGIA TECH	1,756	16	<b>0.91%</b>
University of Texas	6,208	22	0.35%

## FRESHMAN NATIONAL MERIT SCHOLARS, 1983-88

Numerical Rank 1987-88	Institute	Туре	83-84	84-85	85-86	86-87	87-88
1	Harvard/Radcliffe Colleges	Private	297	323	318	297	329
2	University of Texas	Public	223	273	271	270	238
3	Rice University	Private	155	169	179	176	200
4	Stanford University	Private	139	142	153	172	187
5	Yale University	Private	156	187	167	183	157
6	Princeton University	Private	197	168	163	140	155
7	GEORGIA TECH	Public	94	94	108	130	139
8	University of Chicago	Private	105	112	94	115	133
9	Carleton College	Private	85	100	111	104	113
10	Michigan State University	Public	118	128	117	102	109

## 1987-88 NATIONAL MERIT SCHOLARS AS A PERCENTAGE OF FRESHMAN CLASS, PUBLIC SCHOOLS

Institute	Freshman Enrollment	Merit Scholars	Percentage of Freshman Class
GEORGIA TECH	1,756	139	7.9%
University of Texas	6,208	238	3.8%
Michigan State University	6,603	109	1.7%
Texas A & M University	7,433	108	1.7%

Source: Office of the Director, Financial Aid

## President's Scholarship Program

## SEVEN YEAR SUMMARY OF ENTERING FRESHMEN

	Mean	Mean	Georgia		Out-of-	State	Total
	HSA	SAT	Male	Female	Male	Female	
1988-89•	3.9	1429	32	13	28	7	80
1987-88 <sup>b</sup>	3.9	1434	35	11	19	3	68
1986-87°	3.9	1428	36	8	23	2	69
1985-86 <sup>d</sup>	3.9	1437	32	8	20	3	63
1984-85°	3.9	1432	25	10	7	2	44
1983-84 <sup>£</sup>	3.9	1418	15	7	5	0	27
1982-838	3.9	1425	8	3	2	1	14
1981-82 <sup>h</sup>	3.9	1465	5	1	0	0	6
Program Total/ Averages (1981-1988)	3.9	1429	188	61	104	18	371

<sup>\*</sup>States represented: AL, CT, FL, GA, IN, KY, MD, NC, NY, OH, PA, SC, TN, TX, VA

## GRADUATES OF THE PRESIDENT'S SCHOLARSHIP PROGRAM

	Majors		eorgia Female		of-State Female	Highest Honor	High Honor	Honor	Total
1984-85	ICS, ChE, ME, MSCI	3	1	0	0	3	1	0	4
1985-86	EE, ChE, TE, Phys, BC, ICS	7	2	1	1	7	1	3	11
1986-87	Mgt, IM, EE, ChE, IE, AE, ME, ICS, Psy, Phys	12	4	5	0	13	0	2	21
1987-88	BC, BIOL, ChE, EE, ICS IE, ME, Phys, Psy	14	5	3	1	9	8	4	23

Source: President's Scholarship Committee

bStates represented: AL, FL, GA, KY, MS, NC, OH, SC, TN

<sup>&#</sup>x27;States represented: AK, AL, CT, FL, GA, MA, MD, MS, NC, SC, TN, VA

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

<sup>°</sup>States represented: AL, CA, FL, GA, KY, LA, SC, TN, VA, WI

<sup>&#</sup>x27;States represented: AL, FL, GA, SC

<sup>&</sup>lt;sup>g</sup>States represented: GA, NC

hStates represented: GA

## President's Scholarship Program

PRESIDENT'S SCHOLARS' INTERESTS AT ENTRY									
	1984-85	1985-86	1986-87	1987-88	1988-89				
COSALS									
Biology	1	3	2	1	2				
Chemistry	1	3		1	1				
Information & Computer Science	3	5	7	5	1				
Mathematics	2	1	1	4	2				
Physics	2	5	7	3	5				
Undecided	2	2	1	4	5				
Total	11	19	18	18	16				
MANAGEMENT	_	2	2	_	6				
ARCHITECTURE	1	_	1	2	1				
ENGINEERING									
Aerospace	2	2	9	10	7				
Ceramics			1	1	1				
Chemical	4	7	6	8	8				
Civil	2		1		2				
Electrical	16	20	16	14	15				
Engineering Science & Mechanics	1	2	National Control of Co	1	1				
Health Physics		1							
Industrial and Systems		audited region		_	1				
Industrial			2	susmice contains	2				
Materials					1				
Mechanical	2	1	5	6	4				
Nuclear		1	1						
Textiles	**********		1	***************************************	1				
Undecided	5	8	6	8	14				
Total	32	42	48	48	57				

Source: President's Scholarship Committee

The Graduate Office administers several programs of financial assistance, which include: President's Fellowships, President's Minority Fellowships, Regents' Opportunity Scholarships, Patricia Roberts Harris Fellowships (formerly G\*POP, Graduate and Professional Opportunities Program), National Consortium for Educational Access Fellowships, General Electric Foundation Ph.D. Forgivable Loan Program, Domenica Rea D'Onofrio Graduate Fellowship, and tuition waivers.

\*\*\*\*

## PRESIDENT'S MINORITY FELLOWSHIPS

President's Minority Fellowships were established in 1986 through support of the Georgia Tech Foundation. Fellowship grants are awarded to minority students who intend to pursue the doctorate. In 1987-88, there were nine President's Minority Fellows (six black, one Asian, one Hispanic, and one native American).

\*\*\*

## REGENTS' OPPORTUNITY SCHOLARSHIPS

Georgia Tech has participated in the Regents' Opportunity Scholarship Program since 1978. Since then, thirty-nine

black students have been supported on Regents' Opportunity Scholarships. One of these students has completed the Ph.D. degree, and fourteen have received master's degrees. Seven additional students are enrolled currently.

\*\*\*\*

## PATRICIA ROBERTS HARRIS FELLOWSHIP PROGRAM

Georgia Tech has participated in this program (formerly G\*POP) since 1978 with the exception of one year (1984-85), and served as the Regional Resource Center from 1978 through 1982. This program, which is funded by the Department of Education, provides fellowships for minorities and women for graduate study in fields in which they are underrepresented.

As of Spring Quarter 1988, forty-three black graduate students have been supported with G\*POP or P.R. Harris fellowships. Of these, seventeen were Georgia residents. Twenty-three of these students received M.S. degrees, and one received the Ph.D. degree. Of these fellows receiving degrees, six were Georgia residents. Three black Patricia Roberts Harris Fellows were enrolled during 1987-88.

\*\*\*

## Graduate Financial Assistance

# NATIONAL CONSORTIUM FOR EDUCATIONAL ACCESS FELLOWSHIPS

Georgia Tech is an active member of the National Consortium for Educational Access (NCEA), which was established in 1985 and is a partnership agreement between historically black colleges and majority institutions of higher education. Fellowships of \$3,000 per academic year are awarded to black doctoral students to supplement the school's normal awards. Two NCEA fellowships were awarded to Georgia Tech students for 1987-88.

\*\*\*\*

## PRESIDENT'S FELLOWSHIP PROGRAM

President's Fellowships were established by President Joseph M. Pettit in 1973 to enhance the scope and quality of Georgia Tech's Ph.D. programs. Through support of the Georgia Tech Foundation. President's Fellowships are offered annually to a select number of highly qualified U.S. nationals who intend to pursue advanced degrees at the doctoral level. Fellowship recipients bring exemplary levels of scholarship and innovation to the graduate schools that host their study and research. In turn, the Fellowship

## Graduate Financial Assistance

PRESIDENT'S FELLOWSHIP SURVEY, 1973-1988 # Ph.D.'s									
Completed in Award Year	# Awarded Ph.D.	# Awarded Term. M.S.	# New Fellows	Academic Year					
1	26	22	58	1973-77					
3	5	11	16	1977-78					
$\epsilon$	3	6	11	1978-79					
7	7	11	23	1979-80					
5	4	9	15	1980-81					
$\epsilon$	5	6	12	1981-82					
2	5	6	14	1982-83					
$\epsilon$	1	4	8	1983-84					
5	1	4	11	1984-85					
$\epsilon$	0	5	12	1985-86					
3	0	1	9	1986-87					
4	0	2	72	1987-88					

program enables these students to prepare themselves for outstanding careers in the disciplines of their choice. President's Fellowships provide stipends, which supplement other support offered by the academic units. Offers may be made throughout the year for students starting any quarter.

This fellowship program has been successful in attracting outstanding students from programs at respected institutions.

Since the inception of the President's Fellowship Program in Fall Quarter 1973, 261 awards have been made. Fifty-seven of the fellowship recipients have earned Ph.D. degrees; twenty-five of these have earned master's degrees also. Eighty-seven fellows earned only the

master's degree. Eighty-seven were enrolled as of Spring Quarter 1988.

\*\*\*

## GENERAL ELECTRIC FOUNDATION PH.D. FORGIVABLE LOAN PROGRAM

Doctoral candidates in engineering and computer science who are U.S. citizens and plan to pursue an academic career may receive up to \$5,000 per year from this program. Recipients earn loan forgiveness by teaching in a U.S. college or university.

\*\*\*

## DOMENICA REA D'ONOFRIO GRADUATE FELLOWSHIPS

Approximately \$8,000 per year may be awarded in this fellowship program to natives of Italy.

\*\*\*

## **TUITION WAIVERS**

Outstanding students who are not residents of Georgia may receive out-of-state tuition waivers. Approximately 150 of these are awarded annually.

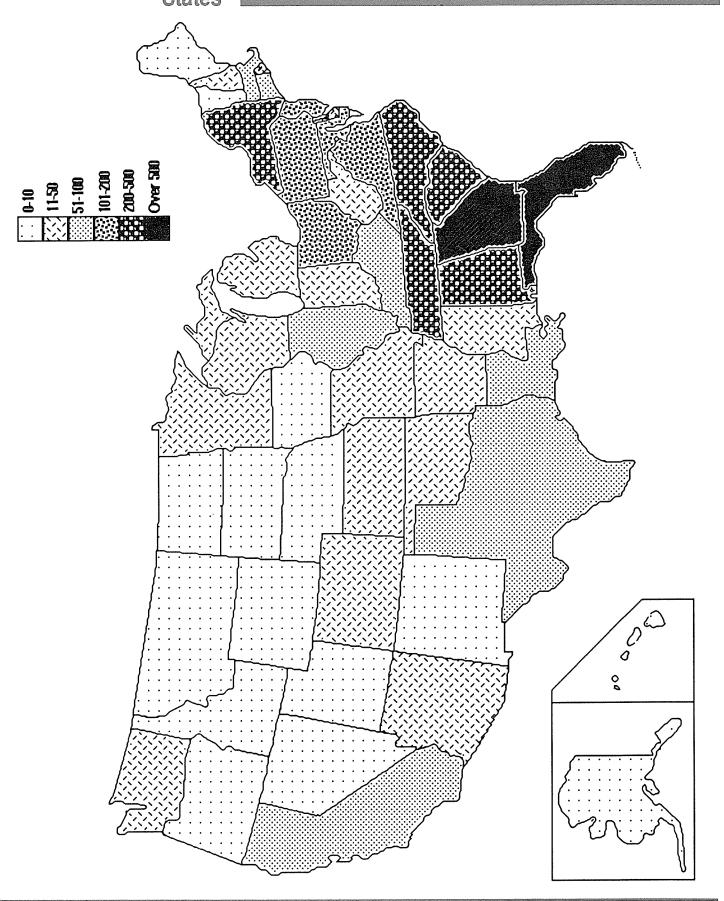
Source: Office of the Associate Vice-President for Graduate Studies and Research

## **Enrollment by Foreign Countries**

ENROLLMENT BY RESIDENCY CLASSIFICATION,	NON-UNITED STATES RESIDENCY, FALL QUARTER 1988

	Under-	Grad-			Under-				
	graduate	uate	Total	gra	aduate	uate	Total		
Algeria	0	5	5	Kampuchea	0	1	1		
Argentina	0	1	1	Korea	12	124	136		
Australia	2	0	2	Kuwait	1	3	4		
Austria	1	2	3	Lebanon	16	17	33		
Bahamas	2	0	2	Malaysia	6	11	17		
Bangladesh	2	2	4	Mauritius	0	2	2		
Belgium	1	1	2	Mexico	1	8	9		
Bolivia	1	0	1	Netherlands	0	2	2		
Brazil	3	7	10	Netherlands W. Indies	1	1	2		
Cameroon	1	2	3	Nigeria	3	8	11		
Canada	2	9	11	North Korea	1	0	1		
Chile	2	1	3	Norway	2	2	4		
China (Mainland)	3	88	91	Pakistan	6	16	22		
Colombia	10	6	16	Panama	9	1	10		
Costa Rica	4	1	5	Paraguay	0	1	1		
Cuba	1	0	1	Peru	6	4	10		
Cyprus	1	4	5	Philippines	2	1	3		
Denmark	1	0	1	Poland	0	2	2		
Ecuador	2	4	6	Saudi Arabia	1	6	7		
Egypt (UAR)	0	8	8	Sierra Leone	1	0	1		
El Salvador	7	0	7	Singapore	2	4	6		
England	3	5	8	South Africa	1	3	4		
Finland	2	0	2	Spain	3	2	5		
France	5	31	36	Sri Lanka	0	1	1		
Germany (West)	5	25	30	Swaziland	0	1	1		
Ghana	0	5	5	Sweden	2	1	3		
Greece	0	16	16	Switzerland	3	3	6		
Haiti	0	1	1	Syria	1	2	3		
Honduras	3	1	4	Taiwan (Rep. of China)	14	95	109		
Hong Kong	5	8	13	Tanzania	1	2	3		
India	12	66	78	Thailand	1	5	6		
Indonesia	1	6	7	Trinidad	2	0	2		
Iran	2	11	13	Tunisia	11	8	19		
Iraq	0	2	2	Turkey	2	15	17		
Israel	0	8	8	United Arab Emirates	1	1	2		
Italy	4	3	7	United Kingdom	3	1	4		
Jamaica	3	2	5	Venezuela	1	6	7		
Japan	5	14	19	Vietnam	0	1	1		
Jordan	1	3	4						
				TOTAL Source: Office of the Registrar	212	712	924		

# Enrollment by States

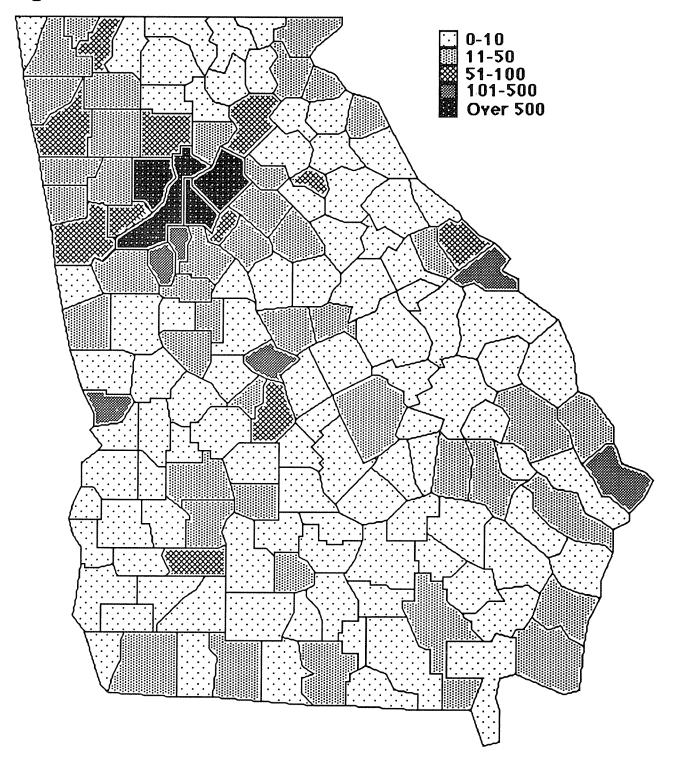


## **Enrollment by States**

### ENROLLMENT BY RESIDENCY CLASSIFICATION, BY STATES, FALL QUARTER 1988

			Undergradua	ate		Graduate	
	Total	Male	Female	Minority	Male	Female	Minority
Alabama	284	174	52	43	51	7	_
Alaska	8	6	0	0	2	ó	5 0
Arizona	11	4	1	2	6	0	1
Arkansas	26	17	2	2	6	1	0
California	84	22	5	11	51	6	9
Colorado	21	8	4	2	8	1	1
Connecticut	58	40	Ż	ī	11	Ô	i
Delaware	18	10	4	$\overline{2}$	4	ŏ	2
District of Columbia	9	4	1	$\overline{2}$	2	2	1
Florida	850	592	123	116	100	35	30
Georgia	6,973	4,477	1,576	796	681	239	121
Hawaii	5	3	1	1	1	0	0
Idaho	3	0	0	0	2	1	1
Illinois	66	17	13	11	31	5	8
Indiana	49	14	4	1	26	5	6
lowa	10	2	0	0	8	0	0
Kansas	11	6	0	1	4	1	1
Kentucky Louisiana	78	50	12	2	15	1	0
Maine	81	38	14	11	24	5	6
Maryland	6	2	1	0	3	0	0
Massachusetts	167 64	103	31	25	29	4	8
Michigan	36	38	8	3	15	3	2
Minnesota	36 11	18	6	3	8	4	5
Mississippi	36	3 21	1	0	6	1	0
Missouri	41	19	5 7	5 8	9	1	0
Montana	5	4	ó	0	13	2	2
Nebraska	3	1	0	0	1 2	0	0
Nevada	7	$\overset{1}{2}$	2	0	3	0 0	0
New Hampshire	14	6	2	ő	5	1	1
New Jersey	144	104	14	9	18	8	3
New Mexico	6	0	î	ó	5	0	0
New York	228	142	28	29	43	15	6
North Carolina	243	153	29	20	49	12	6
North Dakota	4	1	0	0	3	0	ő
Ohio	121	66	13	12	39	3	7
Oklahoma	11	7	0	1	4	0	0
Oregon	6	2	0	1	3	ī	ĭ
Pennsylvania	148	81	15	14	37	15	5
Rhode Island	15	13	0	1	1	1	1
South Carolina	314	219	45	46	41	9	4
South Dakota	4	3	0	0	1	0	0
Tennessee	271	175	35	27	52	9	9
Texas	77	29	5	2	41	2	3
Utah	9	2	0	0	6	1	0
Vermont	10	8	2	1	0	0	0
Virginia	172	108	20	16	33	11	7
Washington Wast Virginia	17	7	1	0	8	1	1
West Virginia Wisconsin	18	13	0	2	4	1	0
Wyoming	17	9	1	0	5	2	0
-	2	2	0	0	0	0	0
Other U.S. Territories & Guam		2	•	•	•	•	-
Puerto Rico	2 83	2	0	0	0	0	0
Virgin Islands	83 6	49	9	55	17	8	24
4 m P m 121min2	U	4	1	4	0	1	1
TOTAL	10,963	6,900	2,101	1,288	1,537	425	290

## Georgia



# **Enrollment by**

## Georgia Counties ENROLLMENT BY RESIDENCY CLASSIFICATION, BY GEORGIA COUNTIES, FALL QUARTER 1988

	Under- graduate	Grad- uate	Total	g	Under- raduate	Grad- uate	Total		Under- graduate	Grad- uate	Total
Appling	7	0	7	Evans	6	0	6	Newton	21	1	22
Atkinson	0	0	0	Fannin	9	1	10	Oconee	4	1	5
Bacon	1	0	1	Fayette	109	4	113	Oglethorpe	2	0	2
Baker	2	0	2	Floyd	71	6	77	Paulding	15	3	18
Baldwin	23	3	26	Forsyth	22	3	25	Peach	15	1	16
Banks	1	1	2	Franklin	3	0	3	Pickens	5	0	5
Barrow	11	0	11	Fulton	830	242	1,072	Pierce	2	2	4
Bartow Ben Hill	37	1	38	Gilmer	3	1	4	Pike	2	0	2
Berrien	4 5	0	4 6	Glascock	0	0	0	Polk	21	0	21
Bibb	132	1 7	139	Glynn	41	3	44	Pulaski	6	0	6
Bleckley	5	0	139	Gordon	26	0	26	Putnam	9	0	9
Brantley	0	0	0	Grady Greenc	8 5	1	9	Quitman	1	0	1
Brooks	1	0	1	Gwinnett	548	0 77	5 625	Rabun	10	3	13
Bryan	4	ő	4	Habersham	16	1	623 17	Randolph	4	0	4
Bulloch	23	1	24	Hall	57	4	61	Richmond Rockdale	143 89	20	163
Burke	4	Ô	4	Hancock	0	0	0	Schley	2	6 0	95
Butts	6	i	7	Haralson	11	1	12	Screven	6	0	2 6
Calhoun	4	ō	4	Наттіѕ	8	Ô	8	Seminole	2	0	2
Camden	12	0	12	Hart	16	2	18	Spalding	44	4	48
Candler	4	0	4	Heard	0	0	0	Stephens	23	0	23
Carroll	47	9	56	Henry	44	2	46	Stewart	0	ő	0
Catoosa	23	1	24	Houston	57	10	67	Sumter	14	2	16
Charlton	1	0	1	Irwin	6	0	6	Talbot	1	1	2
Chatham	112	18	130	Jackson	6	0	6	Taliaferro	0	ō	ō
Chattahooc		0	0	Jasper	3	0	3	Tattnall	13	0	13
Chattooga	15	0	15	Jeff Davis	4	1	5	Taylor	2	0	2
Cherokee	48	12	60	Jefferson	5	0	5	Telfair	1	1	2
Clarke	67	6	73	Jenkins	2	0	2	Terrell	1	0	1
Clay	0	0	0	Johnson	2	0	2	Thomas	19	2	21
Clayton Clinch	222	17	239	Jones	18	1	19	Tift	23	0	23
Cobb	1 797	0 158	1 955	Lamar	12	1	13	Toombs	13	1	14
Coffee	797	136	933 7	Lanier Laurens	0	0	0	Towns	1	1	2
Colquitt	6	0	6	Laurens Lee	12 10	2 1	14	Treutlen	0	0	0
Columbia	77	2	79	Liberty	15		11	Troup	31	2	33
Cook	4	0	4	Lincoln	3	1 0	16 3	Tumer	2	0	2
Coweta	39	2	41	Long	1	0	3 1	Twiggs Union	3 5	0	3
Crawford	5	õ	5	Lowndes	37	7	44	Upson	19	$\frac{1}{0}$	6 19
Crisp	7	4	11	Lumpkin	4	ó	4	Walker	19	2	21
Dade	1	0	1	Macon	5	ŏ	5	Walton	20	2	22
Dawson	1	0	1	Madison	5	Ö	5	Ware	14	2	16
Decatur	13	0	13	Marion	0	Ö	Õ	Warren	2	1	3
DcKalb	1,159	214	1,373	McDuffie	15	0	15	Washington	. 8	Ô	8
Dodge	4	0	4	McIntosh	4	0	4	Wayne	6	1	7
Dooly	4	0	4	Meriwether	5	1	6	Webster	0	Ō	0
Dougherty	63	5	68	Miller	2	0	2	Wheeler	2	0	2
Douglas	65	5	70	Mitchell	5	0	5	White	7	1	8
Early	7	0	7	Monroe	7	1	8	Whitfield	65	2	67
Echols	1	0	1	Montgomery	1	0	1	Wilcox	4	0	4
Effingham	13	1	14	Morgan	15	0	15	Wilkes	6	0	6
Elbert	7	0	7	Murray	9	1	10	Wilkinson	10	0	10
Emanuel	4	0	4	Muscogee	102	12	114	Worth	5	1	6
								Total	6,053	920	6,973

## Enrollment Profile

### ENROLLMENT BY CLASS, FALL 1988

		1		ack,	Lliam	anla	Amer Indi		w	hite	Nonra	sident
	M M	ian F	M M	ispanic F	Hisp M	F	M	F	м	F	M	F
Undergraduate												
JEPHS	1	0	1	0	0	0	1	0	5	1	0	0
Freshman	115	29	130	73	49	13	2	1	1,666	491	37	11
Sophomore	94	22	86	34	44	12	1	4	1,386	396	30	2
Junior	94	30	109	59	43	7	1	0	1,362	383	53	4
Senior	100	27	94	56	47	17	2	0	1,607	454	58	8
Special Undergraduate	3	2	2	2	0	0	0	0	40	17	7	2
Graduate												
Masters	179	36	41	27	61	23	2	0	948	240	223	39
Ph.D.	302	31	25	11	3 1	7	2	1	524	118	388	41
Special Graduate	5	1	4	4	1	3	0	0	39	8	16	5
Total	893	178	492	264	276	82	11	6	7,577	2,108	812	112

### ENROLLMENT BY CLASS, FALL QUARTERS 1984-88

		1:	984		1	985		1	986		1	987		19	988
	М	F	Total	М	F	Total	M	F	Total	М	F	Total	М	F	Total
Undergradua	ite														
JEPHS	16	4	20	14	3	17	16	3	19	26	3	29	8	1	9
Freshman	1,881	547	2,428	2,026	562	2,588	2,006	558	2,564	1,986	551	2,537	1,962	607	2,569
Sophomore	1,401	426	1,827	1,409	438	1,847	1,613	523	2,136	1,694	511	2,205	1,611	468	2,079
Junior	1,567	465	2,032	1,485	420	1,905	1,375	444	1,819	1,451	482	1,933	1,609	479	2,088
Senior	1,924	455	2.379	1.895	509	2,404	1,850	511	2,361	1,825	533	2,358	1,850	554	2,404
Special UG	25	19	44	37	8	45	29	12	41	28	15	43	45	19	64
Graduate															
Masters	1,294	310	1,604	1,302	319	1,621	1,427	332	1,759	1,378	347	1,725	1,231	326	1,557
Ph.D.	450	75	525	483	85	568	610	111	721	755	130	885	884	168	1,052
Special Grad	76	23	99	61	22	83	54	20	74	40	16	56	49	16	65
Total	8,634	2,324	10,958	8,712	2,366	11,078	8,980	2,514	11,494	9,183	2,588	11,771	9,249	2,638	11,887

# Enrollment Profile

### UNDERGRADUATE ENROLLMENT PROFILE BY COLLEGE, FALL QUARTER 1988

College	М	Aslan F		Black, Hispanic F	Hi M	spanic F		erican dian F	M	White F	Non M	resident F
Architecture												
Architecture Building Construction Industrial Design Undeclared Architecture Total Engineering	12 1 1 0 14	8 0 3 0 11	12 4 4 0 20	7 0 0 0 7	6 1 0 0 7	5 1 0 0 6	0 0 0 0	0 0 0 0	250 67 49 4 370	110 9 28 2 149	6 0 0 2 8	3 0 0 2 5
Acrospace Ceramic Chemical Civil Electrical Eng. Sci. & Mechanics Industrial and Systems Materials Mechanical Nuclear Eng. & Health P Textiles Textile Chemistry Textile Engineering Undeclared Engineering Total	32 4 14 9 156 1 27 1 53 hys.11 0 1 4 27 340	1 0 5 4 24 0 13 0 9 0 0 0 0 7 63	9 9 21 20 112 3 45 0 47 1 2 0 3 3 22 294	2 1 26 12 46 2 40 0 13 0 3 1 3 16 165	8 3 5 17 38 6 39 0 30 1 0 0 1 7	2 0 7 1 4 0 6 0 4 1 0 0 2 0 27	0 0 0 0 0 3 0 0 0 0 1 1 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0	411 34 252 351 1,088 59 492 5 923 80 12 13 30 361 4,111	65 9 83 66 122 8 245 2 98 16 12 2 22 89 839	8 2 7 17 50 2 30 0 24 2 0 1 1 1 8	2 0 1 1 7 0 2 0 2 0 0 0 0 0 2 17
Management  Economics Management Management Science Undeclared Management Total  Sciences and Liberal Studies	1 12 2 2 2 17	0 9 2 1 12	0 73 1 1 75	2 29 2 0 33	3 12 2 0 17	1 6 0 1 8	0 0 0 0	0 1 0 0 1	36 739 22 55 852	8 384 19 47 458	0 8 1 0 9	0 1 0 0 1
Biology Chemistry Inform. & Computer Sci. Mathematics Physics Psychology Undeclared COSALS Total INSTITUTE TOTALS	7 5 13 0 6 0 5 36	5 3 9 2 1 0 4 24	0 1 25 2 2 1 2 33	5 1 9 1 0 0 1 17	0 1 3 0 0 0 0 0 4	3 1 3 0 0 0 1 8	0 0 0 0 0 0 0 1 1	1 0 0 0 0 0 0 0	72 49 327 45 152 15 73 733	64 30 69 30 26 28 49 296	2 1 4 0 5 0 4 16	0 1 1 1 1 0 0 4
MOTHOLE TOTALS	407	110	422	LLL	183	49	/	5	6,066 1	,142	185	27

## Enrollment Profile

### GRADUATE ENROLLMENT PROFILE BY COLLEGE, FALL QUARTER 1988

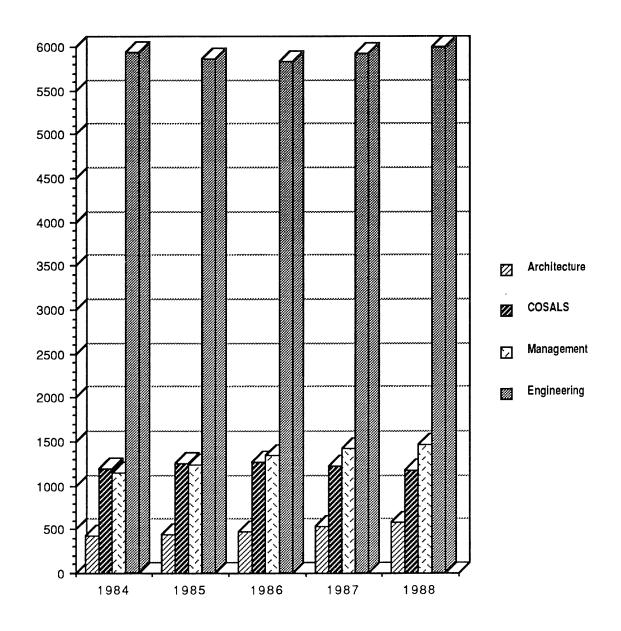
				lack,	1 11-			rican	1	l/bita	Mana	a al dans
College	M	\sian F	Non-t M	lispanic F	HIS M	panic F	inc M	ian F	M	Vhite F	Nonr M	esident F
Architecture												
Architecture City Planning Total	7 6 13	3 3 6	7 1 8	3 3 6	7 1 8	4 1 5	0 0 0	1 0 1	97 28 125	45 9 54	14 8 22	6 3 9
Engineering												
Aerospace Ceramic Chemical Civil Electrical Environmental Eng. Sci. & Mechanics Health Systems Industrial and Systems Materials Mechanical Metallurgy Nuclear Eng. & Health Ph Textiles Textile Chemistry Textile Engineering Total	52 3 9 36 119 10 7 0 40 2 57 10 nys.17 2 6 372	1 2 3 1 14 0 4 0 5 0 2 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 0 2 8 19 0 1 0 5 0 6 0 4 0 1 0 4 9	0 0 5 2 8 0 0 0 5 0 5 0 0 5 0 0 0 0 0 0 0 0 0 0	1 2 2 12 15 2 1 0 10 0 4 1 9 0 0 2 61	0 0 0 4 6 0 0 1 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0	98 8 44 93 365 15 4 0 101 2 130 16 43 1 2 8 930	7 1 12 8 44 4 0 28 0 18 3 6 0 0 4 139	72 2 17 59 125 9 7 0 57 2 58 12 28 2 2 8	1 2 4 3 9 0 4 1 8 0 4 1 1 0 0 3 8
Management												
Management Total	16 16	3 3	4 4	1 1	12 12	1 1	0	0 0	96 96	40 40	35 35	5 5
Sciences and Liberal Studies												
Biology Chemistry Geophysical Sciences Inform. & Computer Sci. Mathematics Physics Psychology Technology & Sci. Policy Total	7 13 13 26 5 20 1 0 85	5 6 5 5 1 2 2 0 26	1 3 2 1 0 1 0 1 9	1 1 1 3 2 1 0 1	0 1 4 5 1 0 0 1 12	1 4 0 3 0 1 1 0 10	0 0 0 0 1 0 0 0	0 0 0 0 0 0 0	14 46 34 103 44 56 30 33 360	10 22 9 34 14 5 31 8 133	8 15 16 31 9 29 0 2	6 8 5 8 1 2 3 0 33
INSTITUTE TOTALS	486	68	70	42	93	33	4	1	1,511	366	627	85

## Undergraduate Enrollment

#### FALL QUARTER UNDERGRADUATE ENROLLMENT, BY COLLEGE, 1984-1988

		1984 Female		985 Female		986 Female		987 Female		988 Female
ARCHITECTURE										
Architecture	228	81	259	86	242	91	262	111	280	130
Building Construction	46	6	55	7	63	6	78	9	73	10
Industrial Design	40	22	41	19	41	34	49	29	54	31
Undeclared Architecture						***************************************			4	2
TOTAL ARCHITECTURE	314	109	335	112	346	131	389	149	411	173
ENGINEERING										
Aerospace	661	77	628	64	536	66	541	76	460	70
Ceramic and Materials	37	11	45	10	38	13	49	10	56	12
Chemical	392	175	354	159	354	150	333	131	292	121
Civil	362	68	370	67	374	76	362	86	397	83
Electrical	1,476	216	1,420	210	1,422	214	1,424	205	1,397	196
Engineering Science & Mechani		17	72	13	81	12	71	11	69	10
Industrial and Systems	488	267	523	303	547	326	575	301	603	306
Mechanical	924	113	905	109	882	108	988	108	1,054	124
Nuclear & Health Physics	112	22	118	18	122	27	114	21	94	17
Textiles	17	8	14	11	11	15	9	14	14	15
Textile Chemistry	10	7	9	4	11	4	9	3	14	3
Textile Engineering	49	27	49	20	36	21	31	23	39	27
Undeclared Engineering	260	54	297	73	326	66	357	77	417	113
TOTAL ENGINEERING	4,871	1,062	4,804	1,061	4,740	1,098	4,863	1,066	4,906	1,097
MANAGEMENT										
Economics	17	7	19	5	17	7	26	11	40	11
Management	671	283	698	299	783	363	794	441	836	429
Management Science	74	52	96	59	63	45	40	29	27	23
Undeclared Management	23	14	31	34	39	36	41	39	58	49
TOTAL MANAGEMENT	785	356	844	397	902	451	901	520	961	512
SCIENCES & LIBERAL STUDIES (C	OSALS)									
Applied Biology	52	56	76	57	83	88	82	83	79	78
Chemistry	52	29	49	30	47	31	45	32	56	35
Information & Computer Science	437	164	446	142	438	125	396	116	368	90
Mathematics	62	38	70	47	62	49	58	42	47	33
Physics	137	16	133	20	163	25	157	25	160	27
Psychology	16	25	20	23	22	23	16	17	16	28
Undeclared COSALS	64	51	89	50	86	35	103	45	81	55
TOTAL COSALS	820	379	883	369	901	376	857	360	807	346
INSTITUTE SUBTOTAL	6,814	1,916	6,866	1,940	6,889	2,051	7,010	2,095	7,085	2,128
INSTITUTE TOTAL	8,7	30	8,80	06	8,94	40	9,10	05	9,2	13

### FALL QUARTER UNDERGRADUATE ENROLLMENT BY COLLEGE, 1984-1988



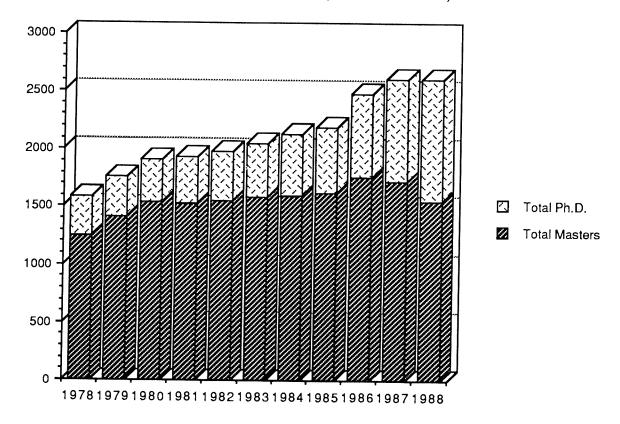
FALL QUARTER GRADUATE ENROLLMENT BY DEGREE PROGRAM, 1978-1988\*

	Archi	Architecture		eering	Manag	gement	COS	SALS	Te	otal
	M.S.	Ph.D.	M.S.	Ph.D.	M.S.	Ph.D.	M.S.	Ph.D.	M.S.	Ph.D.
Fall Quarter 1978	174	0	657	181	135	1	284	155	1,250	337
Fall Quarter 1979	215	0	765	190	118	1	312	160	1,410	351
Fall Quarter 1980	220	0	867	205	124	2	335	163	1,546	370
Fall Quarter 1981	221	1	856	236	111	8	342	162	1,530	407
Fall Quarter 1982	213	3	867	253	141	9	326	163	1,547	428
Fall Quarter 1983	232	7	903	261	157	15	291	188	1,583	471
Fall Quarter 1984	224	9	946	292	118	5	316	219	1,604	525
Fall Quarter 1985	217	9	979	314	124	7	301	238	1,621	568
Fall Quarter 1986	217	12	1,071	416	158	9	313	284	1,759	721
Fall Quarter 1987	217	17	1,034	538	167	11	307	319	1,725	885
Fall Quarter 1988	205	18	925	671	156	14	271	349	1,557	1,052

<sup>\*</sup>Includes both full- and part-time Ph.D. and M.S. students; does not include special students

Source: Office of the Registrar

### GRADUATE ENROLLMENT BY DEGREE PROGRAM, FALL QUARTERS, 1978-1988

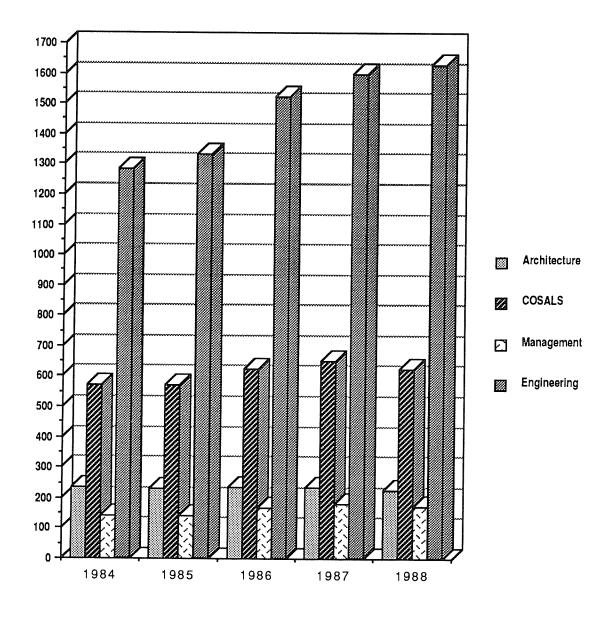


# Graduate Enrollment

### FALL QUARTER GRADUATE ENROLLMENT, BY COLLEGE, 1984-1988

	1	984		985		986		987		188
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
ARCHITECTURE										
Architecture	122	58	124	52	135	45	126	45	118	56
Building Construction	1	0	0	0	0	0	0	0	0	0
City Planning	36	17	33	19	33	21	43	22 67	36 154	16 72
TOTAL ARCHITECTURE	159	75	157	71	168	66	169	07	134	12
ENGINEERING										
Aerospace	93	8	103	11	115	7	134	6	154	8
Ceramic and Materials	16	2	14	1	14	3	14	3	17	3
Chemical	99	14	72	20	70	20	63	15	58	20
Civil	158	19	110	9	143	10	159	20	149	15 72
Electrical	336	34	412	43	480	61	500 19	72 7	519 27	4
Environmental Engineering	17	5	12	9	14	10	19	4	13	8
Engineering Science & Mechanic		5	16	3	19 126	4 43	154	44	156	44
Industrial and Systems	126	35	103 219	35 12	252	12	210	22	198	26
Mechanical	193 28	11 1	31	0	26	3	28	6	27	4
Metallurgy	28 77	18	57	7	57	12	63	11	73	6
Nuclear & Health Physics Textiles	5	10	3	3	7	1	4	2	3	Õ
Textile Chemistry	4	2	6	1	5	Ô	8	1	5	0
Textile Engineering	6	1	8	3	9	1	12	2	16	4
TOTAL ENGINEERING	1,132	150	1,166	166	1,337	187	1,381	215	1,415	214
MANAGEMENT										
Management	109	31	103	40	126	42	141	41	128	45
Management Science	0	0	0	0	1	0	1	0	0	0
TOTAL MANAGEMENT	109	31	103	40	127	42	142	41	128	45
SCIENCES & LIBERAL STUDIES (C	OSALS)									
Applied Biology	18	14	20	10	22	11	24	14	22	17
Chemistry	66	34	63	31	57	33	69	29	63	33
Geophysical Sciences	42	12	44	9	54	13	55	11	53	15
Information & Computer Science	185	48	183	45	206	49	174	44	135	45
Mathematics	35	9	38	12	30	18	39	21	51	17
Physics	42	8	39	9	59	9	73	12	77	9
Psychology	24	23	22	29	24	29	23	34	31	34
Technology & Science Policy	8	4	10	4	7	6	24	5	35	9
Undeclared	0	0	1	0	0	0	0	0	0	0
TOTAL COSALS	420	152	420	149	458	168	481	170	467	179
INSTITUTE SUBTOTAL	1,820	408	1,846	426	2,091	463	2,173	493	2,164	510
INSTITUTE TOTAL		2,228		2,272		2,554		2,666	2,6	74
6 00 0 1 D										

## FALL QUARTER GRADUATE ENROLLMENT BY COLLEGE, 1984-1988



Grades

	QI.	auts								
		AVERAGE	FALL QUAF	RTER GRAD	E POINT AV	/ERAGES, 1	979-1988			
	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
				UNDERGR	ADUATE					
Freshman										
Architecture	2.4	2.5	2.3	2.2	2.3	2.2	2.3	2.4	2.4	2.4
Engineering	2.4	2.6	2.6	2.5	2.5	2.5	2.6	2.6	2.6	2.6
Management	2.1	2.1	2.2	2.1	2.2	2.2	2.2	2.2	2.3	2.4
COSALS	2.3	2.5	2.4	2.4	2.4	2.4	2.6	2.6	2.6	2.4
Total	2.4	2.4	2.5	2.5	2.4	2.4	2.5	2.5	2.5	2.5
Sophomore										
Architecture	2.3	2.4	2.4	2.5	2.5	2.5	2.6	2.4	2.6	2.5
Engineering	2.5	2.6	2.6	2.5	2.6	2.6	2.6	2.6	2.7	2.6
Management	2.2	2.3	2.3	2.3	2.3	2.3	2.2	2.3	2.3	2.4
COSALS	2.5	2.5	2.6	2.6	2.6	2.6	2.6	2.5	2.6	2.6
Total	2.4	2.5	2.6	2.3	2.6	2.6	2.6	2.6	2.6	2.6
Junior										
Architecture	2.4	2.5	2.6	2.5	2.5	2.7	2.6	2.7	2.6	2.7
Engineering	2.5	2.6	2.6	2.6	2.6	2.7	2.7	2.7	2.7	2.7
Management	2.3	2.5	2.6	2.4	2.5	2.5	2.4	2.4	2.4	2.4
COSALS	2.7	2.8	2.7	2.6	2.6	2.7	2.7	2.7	2.7	2.7
Total	2.5	2.6	2.6	2.5	2.6	2.6	2.6	2.6	2.6	2.6
Senior										
Architecture	2.5	2.6	2.6	2.5	2.6	2.7	2.7	2.7	2.7	2.6
Engineering	2.6	2.7	2.5	2.7	2.7	2.7	2.7	2.7	2.8	2.8
Management	2.4	2.5	2.5	2.5	2.5	2.4	2.5	2.5	2.5	2.5
COSALS	2.7	2.8	2.8	2.8	2.7	2.7	2.7	2.7	2.8	2.8
Total	2.6	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
Total Undergraduate										
Architecture	2.4	2.5	2.5	2.5	2.5	2.5	2.5	2.6	2.6	2.6
Engineering	2.5	2.6	2.6	2.6	2.6	2.7	2.7	2.7	2.7	2.7
Management	2.3	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
COSALS	2.5	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.7	2.7
Total	2.4	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
				GRADI	JATE					
All Graduate Students										
Architecture	3.3	3.3	3.3	3.3	3.3	3.3	3.4	3.4	3.4	3.4
Engineering	3.4	3.4	3.4	3.4	3.4	3.5	3.5	3.5	3.5	3.5
Management	3.2	3.2	3.4	3.4	3.4	3.3	3.3	3.3	3.4	3.4
COSALS	3.4	3.4	3.4	3.4	3.4	3.5	3.5	3.5	3.5	3.6
Total	3.3	3.4	3.4	3.4	3.4	3.5	3.5	3.5	3.6	3.5
0 000 00										

Page 46

Source: Office of the Registrar

Georgia Tech Fact Book 1988-89

NUMBER AND PERCENTAGE DISTRIBUTION OF GRADES BY DIVISION AND COLLEGE, FALL QUARTER 1987

			UN	IDERGRADU	ATE LOWE	R DIVISION				
GRADES:	Α	В	С	D	F	S*	U*	W*	l*	V*
Architecture										
Number	182	268	113	29	13	_		28	11	_
Percentage	28.2	41.6	17.5	4.5	2.0	-		4.3	1.7	*****
Engineering	20.2	,	17.5	1.5	2.0			1.5	1.,	
Number	557	601	401	145	84	1		276	11	4
Percentage	26.7	28.8	19.2	6.9	4.0	0.0	**************	13.2	0.5	0.1
Management		_0.0	-7.2	0.,	,,,	0.0		13.2	0.5	0.1
Number	271	410	518	182	63	13	2	101	6	1
Percentage	17.2	26.1	33.0	11.6	4.0	0.8	0.1	6.4	0.3	0.0
COSALS		20.1	55.0	11.0	1.0	0.0	0.1	0.1	0.5	0.0
Number	4,330	5,341	4,486	1,459	808	140	60	1,257	118	56
Percentage	23.9	29.5	24.8	8.0	4.4	0.7	0.3	6.9	0.6	0.3
roroomago	23.7	27.5	27.0	0.0	7,7	0.7	0.5	0.7	0.0	0.5
				IDERGRADU	ATE UPPEI	R DIVISION				
GRADES:	A	В	С	D	F	S*	U*	W*	l*	V*
Architecture										
Number	261	346	156	44	10	11		57	11	1
Percentage	29.0	38.5	17.3	4.9	1.1	1.2		6.3	1.2	0.1
Engineering	_,,,	50.5	27.5	,,,,		1.2		0.5	1.2	0.1
Number	2,881	3,697	2,586	685	235	126	14	961	85	113
Percentage	25.3	32.4	22.7	6.0	2.0	1.1	0.1	8.4	0.7	0.9
Management	-5.5	52.1	22.,	0.0	2.0	1.1	0.1	0.4	0.7	0.7
Number	577	972	651	139	30	108		224	20	7
Percentage	21.1	35.6	23.8	5.0	1.0	3.9		8.2	0.7	0.2
COSALS		55.0	23.0	5.0	1.0	3.7		0.2	0.7	0.2
Number	1,659	2,026	1,222	280	123	274	10	510	104	50
Percentage	26.5	32.3	19.5	4.4	1.9	4.3	0.1	8.1	1.6	0.7
- 01-5011 <b></b> go	2013	32.3	17.5	,	1.7	7.5	0.1	0.1	1.0	0.7
					RADUATE					
GRADES:	A	В	С	D	F	S*	U*	W*	l*	V*
Architecture										
Number	301	215	40	2	6	125	18	65	78	52
Percentage	33.3	23.8	4.4	0.2	0.6	13.8	1.9	7.2	8.6	5.7
Engineering										
Number	1,385	987	233	22	11	685	18	206	189	1,085
Percentage	28.7	20.4	4.8	0.4	0.2	14.2	0.3	4.2	3.9	22.5
Management										
Number	324	262	54	4	5	121	2	49	23	76
Percentage	35.2	28.4	5.8	0.4	0.5	13.1	0.2	5.3	2.5	8.2
COSALS				•					-10	J.2
Number	505	356	104	17	8	521	15	101	31	421
Percentage	24.2	17.1	5.0	0.8	0.3	25.0	0.7	4.8	1.4	20.2
2					<del></del>	_ •••	-••		~•·	

<sup>\*</sup>S=Satisfactory Completion of Pass/Fail; U=Unsatisfactory Completion of Pass/Fail; W=Withdrawn; I=Incomplete; V=Audit or Thesis

### Student Credit Hours

#### STUDENT CREDIT HOURS\*

#### STUDENT CREDIT HOURS BY COLLEGE

	LOWER DIVISION	UPPER DIVISION	GRADUATE DIVISION	TOTAL
Architecture	2.1.10.10.1			
Fall Quarter 1988	2,917	4,970	2,648	10,535
Academic Year 1987-88**	8,721	10,741	9,019	28,481
Engineering				
Fall Quarter 1988	7,302	33,956	20,981	62,239
Academic Year 1987-88**	17,680	115,684	73,418	206,782
Management				
Fall Quarter 1988	5,051	8,782	2,778	16,611
Academic Year 1987-88**	15,420	29,614	8,576	53,610
Sciences and Liberal Studies				
Fall Quarter 1988	67,578	21,547	10,037	99,162
Academic Year 1987-88**	197,090	71,818	34,961	303,869
Institute Total				
Fall Quarter 1988	82,865	69,272	36,495	188,632
Academic Year 1987-88**	239,027	228,100	126,094	593,221

<sup>\*</sup> Student credit hours produced reflect the number of credit hours per course multiplied by the number of students in the course. The number of credit hours per course is calculated by: (1) weighting courses with labs so that Total Credit Hours=Number of Lecture Hours +1/2 Number of Lab Hours and (2) for courses without labs, Total Credit Hours=Total Course Hours.

<sup>\*\*</sup> Academic Year 1987-88 reflects student credit hours produced for Summer 1987, Fall 1987, Winter 1988, and Spring 1988.

## Student Credit Hours

#### INSTITUTE TOTALS BY ACADEMIC YEAR

ACADEMIC YEAR	LOWER DIVISION	UPPER DIVISION	GRADUATE DIVISION	TOTAL
1987-88	239,027	228,100	126,094	593,221
1986-87	240,933	224,634	115,323	580,890
1985-86	236,832	218,419	102,300	557,551
1984-85	229,129	225,400	73,162	527,691
1983-84	231,948	227,708	68,634	528,290
1982-83	258,484	238,044	67,640	564,168
1981-82	250,379	246,690	63,240	560,309
1980-81	256,723	240,752	61,993	559,468
1979-80	274,684	227,554	60,211	562,449
1978-79	262,294	205,590	54,383	522,267
1977-78	250,524	190,105	52,755	493,384
1976-77	239,929	170,512	52,995	463,436

## Cooperative Plan

## UNDERGRADUATE COOPERATIVE PROGRAM

Since 1912, Georgia Tech has offered a five-year cooperative program to those students who wish to combine industrial work experience with classroom studies. The program is the fourth oldest of its kind in the world and is the largest optional co-op program in the country. 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 that is completed by regular four-year students. Graduates of the

program are awarded a degree in their particular field of specialization with the designation "Cooperative Plan."

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

The Georgia Power Company was one of the first

employers of cooperative plan students. In addition to the Georgia Power Company, more than 400 companies participate in the program, including the Georgia Tech Research Institute, DuPont de Nemours & Company, Lockheed-Georgia Company, the State of Georgia, General Electric Company, IBM Corporation. ITT Ravonier, Combustion Engineering, Tennessee Eastman Company, Southern Company Services, Philip Morris U.S.A., NASA, and General Motors Corporation.

Source: Office of the Director, Cooperative Division

Aerospace Engineering	128	Management		170
Biology	11	Materials Engine	ering	4
Ceramic Engineering	15	Mathematics		11
Chemical Engineering	167	Mechanical Engi	neering	407
Chemistry	12	Nuclear Enginee	医电流系统 化压缩 医二种 医二氏 医二甲基苯酚 化苯酚酚	26
Civil Engineering	125	Physics		31
Electrical Engineering	746	Textile Engineer	ing	18
Engineering Science and Mechanics	17	Undecided Engir		5
Health Physics	3	Undecided Mana	gement College	1
Industrial and Systems Engineering	297			
Information and Computer Science	178	Total		2,372
COOPERATIVE D	OIVISION	SIX-YEAR COMPA	RISON	
	1982-83	1987-88	% Increase	
Cumulative Enrollment	2,483	3,032	22%	
Student Graduates	342	374	9%	

## Cooperative Plan

### GRADUATE COOPERATIVE PROGRAM

The Graduate Cooperative Program was established in December 1983. Eighty-five students (35 in 1987-88) have received their graduate degrees with Graduate Co-op Program certificates. Enrollment in the program was 306 during 1987-88, and Graduate Co-op students worked at 80 different company sites. Summary statistics for the program are given in the table at the right.

Source: Office of the Associate Vice-President for Graduate Studies and Research

SUMMARY STATISTICS											
	FY84	FY85	FY86	FY87	FY88						
Applicants	72	140	121	142	180						
Admissions	68	130	92	138	149						
Placements	20	50	54	59	90						
Companies for											
above											
placements	13	34	46	32	49						
Student Partici	pation										
AE	1	4	3	6	11						
ARCH			0	0	3						
BIOL	0	0	0	1	3						
CHE	4	8	8	8	6						
CHEM	0	0	0	2	3						
CE	1	4	6	6	11						
EE	2	14	25	37	99						
ESM	0	1	3	5	4						
GEOS	0	0	1	1	2						
ICS	0	0	0	3	20						
ISYE	0	5	11	13	27						
ME	7	20	30	36	59						
NE	0	1	2	1	1						
MATE		**********	0	0	4						
MATH	2	5	5	5	6						
MET	0	0	1	1	0						
MGT	3	7	6	13	26						
PHYS	0	1	5	8	11						
PSY		Supplements:	0	0	2						
TASP		Announce	0	0	4						
TEXT	0	0	2	2	4						
TOTAL	20	70	108	148	306						

### ROTC

#### ARMY ROTC

Tech's Army ROTC program was one of the original ROTC units established by Congress in June 1916. Today nearly 100 students representing each of Tech's major schools and disciplines participate in a military science curriculum that integrates the classroom with field training experiences. Cadets can volunteer for airborne, air assault, northern warfare, jungle, flight, and ranger schools during the summer. Tech's Army ROTC program also supports over 200 students from the following cross-enrolled schools: Morris Brown, Morehouse, Spelman, Clark College, Atlanta University, Kennesaw College, Southern Tech, Berry College, Shorter College, and Floyd Junior College.

In addition to its regular fouryear scholarship program, Army ROTC provides two- and three-year competitive scholarships. Tech students may apply for these scholarships without prior enrollment in the ROTC program. scholarships pay tuition and all academic-related fees plus \$100 per month while the student is enrolled in Military Science. Approximately seventy-five Army ROTC cadets today are under full tuition Army scholarships. Students enrolled in Army ROTC, both scholarship and



nonscholarship, may participate in the Cooperative Degree program. In addition, a Department of the Army Scientific and Engineering Cooperative Program is open to Army ROTC participants.

Source: Office of the Commanding Officer, Army ROTC

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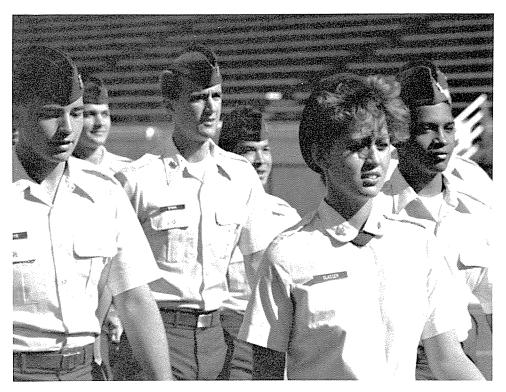
#### NAVY ROTC

The Navy ROTC Unit at Georgia Tech was established in 1926 as one of the six original Naval ROTC Units. The Tech Unit is one of the largest in the country; current enrollment is approximately 185.

Over 80 percent of the midshipmen are on scholarship, which pays tuition, fees, books, uniforms, and a \$100 per month subsistence payment. Nonscholarship Tech students may enroll in the NROTC College Program and compete for scholarships providing up to 3<sup>1</sup>/<sub>2</sub> years of scholarship benefits. The NROTC Unit places primary emphasis on academic performance. Data indicate that NROTC midshipmen have one of the highest grade point averages of all identifiable groups on campus.

Source: Office of the Commanding Officer, Navy ROTC

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## AIR FORCE ROTC

The Air Force ROTC program at Georgia Tech has one of the largest Cadet Corps in the country. It is organized as a Wing with two groups, four squadrons, and eight flights. The program at Tech began as the Army Air Corp ROTC unit in September 1946. The unit became part of the U.S. Air Force, when the Air Force gained separate and independent status under the National Security Act of 1947.

The Georgia Tech unit takes pride in being recognized as the number one Air Force ROTC detachment in the country, supplying the leading input of Air Force

engineers, with a large representation of both females and minorities. This unit provides the USAF newly commissioned officers for pilot, navigator, missile and technical billets from all over the United States. The 1988 Fall enrollment of 236 students is comprised of 149 Air Force scholarship recipients. Of the 236 cadets, there are 34 females and 34 minorities.

AFROTC College Scholarship Program

AFROTC college scholarships are available to qualified cadets in both programs described above and vary in length from two to four years. Scholarships cover tuition, matriculation, health

### ROTC

services, student activities fees, and books. All scholarship cadets also receive the tax-free subsistence allowance of \$100 per month.

Eligibility

The Air Force ROTC program at Georgia Tech is open to all students attending a college in the Atlanta area which has a consortium agreement or cross-enrollment agreement with Georgia Tech. Currently, the Detachment has students from Agnes Scott, Southern Tech, Georgia State, Morehouse, Clark, Morris Brown, Spelman, and Oglethorpe. Eligible students from all schools can apply for scholarships and are encouraged to do so.

Source: Office of the Commanding Officer, Air Force ROTC

Degrees Awarded

### Degrees Awarded by College, 1983-1988 (Academic Year, Summer through Spring)

SCIENCES AND LIBERAL STUDIES (COSALS)	College	1983-84	1984-85	1985-86	1986-87	1987-88
Applied Biology			BACHELOR'S			
Applied Biology	SCIENCES AND LIBERAL STUDIES (	COSALS)				
Chemistry         13         15         12         15         14           Information & Computer Science         88         121         99         106         103           Mathematics         12         7         17         13         24           Physics         13         16         15         13         23           Psychology         4         9         10         17         13           Total         169         194         190         208         227           MANAGEMENT           Economics         1         6         5         4         7           Industrial Management         19         50         62         100         306           Management Science         19         22         53         41         25           Total         256         275         322         349         338           ARCHITECTURE           Building Construction         25         12         22         12         22         12         22         1         10         46         69         78           ENGINEERING         8         9         106         83 </td <td></td> <td></td> <td>11</td> <td>16</td> <td>22</td> <td>24</td>			11	16	22	24
Information & Computer Science   88	Applied Physics	27	15	21	22	26
Mathematics         12         7         17         13         24           Physics         13         16         15         13         23           Psychology         4         9         10         17         13           Total         169         194         190         208         227           MANAGEMENT           Economics         1         6         5         4         7           Industrial Management         217         197         202         204         —           Management         19         50         62         100         306           Management Science         19         22         53         41         25           Total         256         275         322         349         338           ARCHITECTURE           Building Construction         25         12         22         12         2           Industrial Design         4         15         5         17         10           Architecture         75         50         55         40         46           Total         104         77         82         69         78 <td>Chemistry</td> <td>13</td> <td>15</td> <td></td> <td></td> <td></td>	Chemistry	13	15			
Physics   13			121			
Psychology						
Total   169						
MANAGEMENT   Economics	• •		-			
Economics	Total	169	194	190	208	227
Industrial Management	MANAGEMENT					
Management Management Science         19         50         62         100         306           Management Science         19         22         53         41         25           Total         256         275         322         349         338           ARCHITECTURE           Building Construction         25         12         22         12         22           Industrial Design         4         15         5         17         10           Architecture         75         50         55         40         46           Total         104         77         82         69         78           ENGINEERING           Acrospace         80         89         106         83         97           Ceramic         10         8         13         8         9           Chemical         160         165         102         91         67           Civil         103         92         95         95         88           Computer         —         —         —         —         1           Electrical         404         362         357         353 <th< td=""><td>Economics</td><td>1</td><td>6</td><td>5</td><td>4</td><td>7</td></th<>	Economics	1	6	5	4	7
Management Science         19         22         53         41         25           Total         256         275         322         349         338           ARCHITECTURE         Building Construction         25         12         22         12         22           Industrial Design         4         15         5         17         10           Architecture         75         50         55         40         46           Total         104         77         82         69         78           ENGINEERING         8         106         83         97           Ceramic         10         8         13         8         9           Chemical         160         165         102         91         67           Civil         103         92         95         95         88           Computer         —         —         —         —         1           Electrical         404         362         357         353         336           Engineering Science & Mechanics         12         13         18         11         9           Industrial & Systems         —         —	Industrial Management	217	197			
Total   256   275   322   349   338	Management					
ARCHITECTURE Building Construction 25 12 22 12 22 Industrial Design 4 15 5 17 10 Architecture 75 50 55 40 46 Total 104 77 82 69 78  ENGINEERING Aerospace 80 89 106 83 97 Ceramic 10 8 13 8 9 Chemical 160 165 102 91 67 Civil 103 92 95 95 88 Computer — — — — 1 Electrical 404 362 357 353 336 Engineering Science & Mechanics 12 13 18 11 9 Industrial 208 190 191 189 203 Industrial & Systems — — 1 — — — Health Systems 8 11 3 — — — Health Systems 8 11 3 — — — Materials — — — — 1 — — Mechanical 293 274 250 210 215 Nuclear 16 19 30 13 13 Health Physics 6 2 11 6 11 Textile Chemistry 2 4 4 2 3 1 Textile Engineering 10 8 8 8 10 9 9 Textiles 3 6 6 6 10 3						
Building Construction         25         12         22         12         22           Industrial Design         4         15         5         17         10           Architecture         75         50         55         40         46           Total         104         77         82         69         78           ENGINEERING          80         89         106         83         97           Ceramic         10         8         13         8         9           Chemical         160         165         102         91         67           Civil         103         92         95         95         88           Computer         —         —         —         —         1           Electrical         404         362         357         353         336           Engineering Science & Mechanics         12         13         18         11         9           Industrial & Systems         —         —         —         1         —         —           Health Systems         8         11         3         —         —         —           Mechanical	Total	256	275	322	349	338
Industrial Design         4         15         5         17         10           Architecture         75         50         55         40         46           Total         104         77         82         69         78           ENGINEERING          80         89         106         83         97           Ceramic         10         8         13         8         9           Chemical         160         165         102         91         67           Civil         103         92         95         95         88           Computer         —         —         —         —         —         1         67           Civil         103         92         95         95         88         8         8         1         1         67	ARCHITECTURE					
Architecture         75         50         55         40         46           Total         104         77         82         69         78           ENGINEERING          80         89         106         83         97           Ceramic         10         8         13         8         9           Chemical         160         165         102         91         67           Civil         103         92         95         95         88           Computer         —         —         —         —         1         1         67           Civil         103         92         95         95         88         8	Building Construction	25	12	22	12	22
Total   104   77   82   69   78	Industrial Design	4	15			
ENGINEERING   Acrospace   80   89   106   83   97	Architecture	75	50			
Aerospace         80         89         106         83         97           Ceramic         10         8         13         8         9           Chemical         160         165         102         91         67           Civil         103         92         95         95         88           Computer         —         —         —         —         1           Electrical         404         362         357         353         336           Engineering Science & Mechanics         12         13         18         11         9           Industrial         208         190         191         189         203           Industrial & Systems         —         —         —         1         —         —           Health Systems         8         11         3         —         —         —           Materials         —         —         —         1         —         —           Mechanical         293         274         250         210         215           Nuclear         16         19         30         13         13           Health Physics         6	Total	104	77	82	69	78
Ceramic         10         8         13         8         9           Chemical         160         165         102         91         67           Civil         103         92         95         95         88           Computer         —         —         —         —         1           Electrical         404         362         357         353         336           Engineering Science & Mechanics         12         13         18         11         9           Industrial         208         190         191         189         203           Industrial & Systems         —         —         —         1         —         —           Health Systems         8         11         3         —         —         —           Materials         —         —         —         1         —         —           Mechanical         293         274         250         210         215           Nuclear         16         19         30         13         13           Health Physics         6         2         11         6         11           Textile Chemistry         2 <td>ENGINEERING</td> <td></td> <td></td> <td></td> <td></td> <td></td>	ENGINEERING					
Chemical         160         165         102         91         67           Civil         103         92         95         95         88           Computer         —         —         —         —         1           Electrical         404         362         357         353         336           Engineering Science & Mechanics         12         13         18         11         9           Industrial         208         190         191         189         203           Industrial & Systems         —         —         —         —         —           Health Systems         8         11         3         —         —           Materials         —         —         —         1         —           Mechanical         293         274         250         210         215           Nuclear         16         19         30         13         13           Health Physics         6         2         11         6         11           Textile Chemistry         2         4         2         3         1           Textile Engineering         10         8         8	Aerospace	80	89			
Civil         103         92         95         95         88           Computer         —         —         —         —         1           Electrical         404         362         357         353         336           Engineering Science & Mechanics         12         13         18         11         9           Industrial         208         190         191         189         203           Industrial & Systems         —         —         —         1         —         —           Health Systems         8         11         3         —         —         —           Materials         —         —         —         1         —         —           Mechanical         293         274         250         210         215           Nuclear         16         19         30         13         13           Health Physics         6         2         11         6         11           Textile Chemistry         2         4         2         3         1           Textile Engineering         10         8         8         10         9           Textiles	Ceramic	10	8	13	8	
Computer         —         —         —         —         1           Electrical         404         362         357         353         336           Engineering Science & Mechanics         12         13         18         11         9           Industrial         208         190         191         189         203           Industrial & Systems         —         —         —         1         —         —           Health Systems         8         11         3         —         —         —           Materials         —         —         —         1         —         —           Mechanical         293         274         250         210         215           Nuclear         16         19         30         13         13           Health Physics         6         2         11         6         11           Textile Chemistry         2         4         2         3         1           Textile Engineering         10         8         8         10         9           Textiles         3         6         6         10         3	Chemical	160	165			
Electrical       404       362       357       353       336         Engineering Science & Mechanics       12       13       18       11       9         Industrial       208       190       191       189       203         Industrial & Systems       —       —       1       —       —         Health Systems       8       11       3       —       —         Materials       —       —       —       1       —         Mechanical       293       274       250       210       215         Nuclear       16       19       30       13       13         Health Physics       6       2       11       6       11         Textile Chemistry       2       4       2       3       1         Textile Engineering       10       8       8       10       9         Textiles       3       6       6       10       3	Civil	103	92	95	95	88
Engineering Science & Mechanics       12       13       18       11       9         Industrial       208       190       191       189       203         Industrial & Systems       —       —       1       —       —         Health Systems       8       11       3       —       —         Materials       —       —       —       1       —         Mechanical       293       274       250       210       215         Nuclear       16       19       30       13       13         Health Physics       6       2       11       6       11         Textile Chemistry       2       4       2       3       1         Textile Engineering       10       8       8       10       9         Textiles       3       6       6       10       3	Computer					<del>-</del>
Industrial         208         190         191         189         203           Industrial & Systems         —	Electrical					
Industrial & Systems         —						
Health Systems         8         11         3         —         —           Materials         —         —         —         —         —           Mechanical         293         274         250         210         215           Nuclear         16         19         30         13         13           Health Physics         6         2         11         6         11           Textile Chemistry         2         4         2         3         1           Textile Engineering         10         8         8         10         9           Textiles         3         6         6         10         3		208	190		189	203
Materials         —         —         —         1         —           Mechanical         293         274         250         210         215           Nuclear         16         19         30         13         13           Health Physics         6         2         11         6         11           Textile Chemistry         2         4         2         3         1           Textile Engineering         10         8         8         10         9           Textiles         3         6         6         10         3			-			
Mechanical         293         274         250         210         215           Nuclear         16         19         30         13         13           Health Physics         6         2         11         6         11           Textile Chemistry         2         4         2         3         1           Textile Engineering         10         8         8         10         9           Textiles         3         6         6         10         3		8	11	3		
Nuclear       16       19       30       13       13         Health Physics       6       2       11       6       11         Textile Chemistry       2       4       2       3       1         Textile Engineering       10       8       8       10       9         Textiles       3       6       6       10       3					1	
Health Physics       6       2       11       6       11         Textile Chemistry       2       4       2       3       1         Textile Engineering       10       8       8       10       9         Textiles       3       6       6       10       3						
Textile Chemistry         2         4         2         3         1           Textile Engineering         10         8         8         10         9           Textiles         3         6         6         10         3						
Textile Engineering         10         8         8         10         9           Textiles         3         6         6         10         3	•					
Textiles 3 6 6 10 3						

College	1983-84	1984-85	1985-86	1986-87	1987-88
		MASTER'S			
SCIENCES AND LIBERAL STUDIES (	(COSALS)				
Applied Biology	4	4	1	1	2
Applied Physics		2	4	2	13
Chemistry	6	4	4	2	6
Geophysical Sciences	10	16	8	6	12
Information & Computer Science	62	66	78	75	79
Mathematics	9	5	13	10	9
Physics	16	11	11	15	12
Psychology	3	3	4	6	7
Technology & Science Policy	2	2	4	3	6
Statistics	1	CONTRACTOR OF THE PARTY OF THE		1	1
Total	113	113	127	121	147
MANAGEMENT					
Statistics			1	differentia	
Industrial Management	42	14		******	
Management	40	41	60	59	78
Total	82	55	61	59	78
ARCHITECTURE					
City Planning	15	17	18	18	26
Architecture	58	51	53	50	40
Total	73	68	71	68	66
ENGINEERING					
Aerospace	22	25	23	32	29
Ceramic	5	5	4	2	2
Chemical	16	21	24	21	13
Civil	57	61	50	40	52
Electrical	159	160	147	202	228
Engineering Science & Mechanics	4	10	7	3	7
Environmental	3	3	3	4	1
Industrial	37	22	18	26	22
Industrial & Systems	3	4	5	9	16
Health Systems	5	6	5	8	6
Mechanical	52	72	92	92	81
Metallurgical	2	6	10	6	3
Materials		_	3	_	<del></del>
Nuclear	10	10	16	8	4
Operations Research	29	20	16	17	18
Polymers		1	1	2	1
Health Physics	15	8	21	11	15
Statistics	_	3	5	1	1
Textile Engineering	7	4	1	2	8
Textiles		1		1	2
Total	426	442	451	487	509

College	1983-84	1984-85	1985-86	1986-87	1987-88						
	PH.D.'s										
SCIENCES AND LIBERAL STUDIES (	COSALS)										
Biology		•		2	2						
Chemistry	15	13	14	11	16						
Geophysical Sciences	1	2	5	5	1						
Information & Computer Science	1	2	2	7	6						
Mathematics		2	1	4	1						
Physics	1	5	2	8	2						
Psychology	8	5	4	5	3						
Total	26	29	28	42	31						
MANAGEMENT											
Industrial Management	2	1	1	*********							
Management	2	***************************************	-	1	2						
Total	4	1	1	1	2						
ARCHITECTURE											
Architecture	_		_	_	1						
Total		<del></del>			1						
ENGINEERING											
Aerospace	8	7	7	11	8						
Ceramic	**************************************	1	1	2	1						
Chemical	7	4	12	5	17						
Civil	4	3	6	2	4						
Electrical	8	7	11	3	7						
Engineering Science & Mechanics	3		2	2	1						
Environmental	1	1			2						
Industrial		7	8	7	9						
Industrial & Systems	9			_							
Metallurgy		_	1	2	1						
Mechanical	7	2	6	7	10						
Nuclear	6	2		4	1						
Textile Engineering	1	1		•	2						
Total	54	35	54	45	63						

### **FIVE YEAR SUMMARY**

College	1983-84	1984-85	1985-86	1986-87	1987-88
Sciences & Liberal Studies					
Bachelor's	169	194	190	208	227
Master's	113	113	127	121	147
Doctorate	26	29	28	42	31
Total	308	336	345	371	405
Management					
Bachelor's	256	275	322	349	338
Master's	82	55	61	59	78
Doctorate	4	1	1	1	2
Total	342	331	384	409	418
Architecture					
Bachelor's	104	77	82	69	78
Master's	73	68	71	68	66
Doctorate	**************************************				1
Total	177	145	153	137	145
Engineering					
Bachelor's	1,315	1,243	1,193	1,083	1,062
Master's	426	442	451	487	509
Doctorate	54	35	54	45	63
Total	1,795	1,720	1,698	1,615	1,634
Institute					
Bachelor's	1,844	1,789	1,787	1,709	1,705
Master's	694	678	710	735	800
Doctorate	84	65	83	88	97
Total	2,622	2,532	2,580	2,532	2,602

### TOTAL NUMBER OF DEGREES GRANTED BY GEORGIA TECH (Through Spring 1988)

Total number of bachelor's degrees granted	61,946
Total number of master's degrees granted	15,021
Total number of Ph.D. degrees granted	1,762
Total number of degrees granted	77,645

### **DEGREES AWARDED SUMMER 1987-SPRING 1988**

#### **BACHELOR'S**

		esident iens		ack, ispanic		tive rican	As	ian	Hist	anic	w	hite
College	M	F	М	F	M	F	M	F	М	F	М	F
Architecture			4	1			2	1			55	15
COSALS	3	3	6	4	_		4	5	2	2	144	54
Engineering	22		40	28	1		43	10	19	4	740	155
Management	3	1	11	9		And the Salespanian	******	4	3		190	117
Total	28	4	61	42	1	_	49	20	24	6	1,130	341
					MAS	STER'S						
	Nonre	esident		ick,	Nat	tive						
		ens	Non-H	ispanic	Ame	rican	As	ian	Hisp	anic		hite
College	М	F	М	F	М	F	M	F	M	F	M	F
Architecture	7		1	Province	_	_	1	1	2		34	20
COSALS	18	7	4	*******	_	1	3	3	2		83	26
Engineering	79	17	17	8			16	8	12	7	301	44
Management	7	2	3	********	<del></del>	_	2	_	_	2	48	14
Total	111	26	25	8		1	22	12	16	9	466	104
					PH	l.D.'S						
	Nonre	sident	Bla	ıck,	Nat	tive						
	Ali	ens	Non-H	ispanic	Ame	rican	Asi	ian	Hisp	anic	W	hite
College	М	F	M	F	М	F	М	F	М	F	М	F
Architecture	1	_	********	_	_	_	_				_	
COSALS	5	4	_			*******	1				14	7
Engineering	31	1	_		********	********	1			1	25	4
Management			Management	_	_	_		******	No. of State		2	_
Total	37	5	_				2	_	_	1	41	11
					TOTALI	NSTITUTE	•					
	Nonre	sident	Bla	ıck,	Nat	ive						
		ens		spanic	Amei		Asi	an	Hisp	anic	W	hite
	M	F	М	F	М	F	M	F	М	F	М	F
Total Institute	176	35	86	50	1	1	73	32	40	16	1,636	456

## DEGREES AWARDED BY RESIDENCY CLASSIFICATION, NON-UNITED STATES RESIDENCY, SUMMER QUARTER 1987 THROUGH SPRING QUARTER 1988

	Bach.	Mast.	Ph.D.		Bach.	Mast.	Ph.D.
Algeria	0	1	0	Kampuchea	1	0	0
Barbados	1	0	0	Korea	2	7	9
Brazil	0	1	1	Lebanon	4	6	0
Cameroon	1	0	0	Libya	0	1	0
Canada	0	4	0	Malaysia	1	3	0
China (Mainland)	0	13	5	Mexico	1	2	0
China (Taiwan)	0	14	6	Netherlands	0	1	0
Colombia	1	8	0	Netherlands W. Indies	1	0	0
Costa Rica	0	1	0	Nigeria	0	3	0
Cyprus	0	3	0	Norway	1	0	0
Denmark	1	0	0	Pakistan	0	3	1
Ecuador	1	2	0	Panama	2	0	0
Egypt (United Arab Re	epublic)0	3	1	Paraguay	1	0	0
El Salvador	0	3	0	Peru	1	0	0
England	0	4	0	Philippines	1	0	1
France	0	9	1	Poland	0	1	0
Germany (West)	2	7	2	Portugal	0	1	0
Ghana	0	2	1	Saudi Arabia	0	1	0
Greece	1	4	3	Spain	1	1	0
Guyana	0	1	0	Sri Lanka	1	0	1
Honduras	4	0	0	Sweden	0	1	1
Hong Kong	2	2	0	Switzerland	0	2	0
Iceland	0	1	0	Thailand	0	1	0
India	1	13	7	Tunisia	0	1	0
Indonesia	0	5	0	Turkey	0	8	1
Iran	1	1	2	U.S.S.R.	1	0	0
Ireland	0	1	0	Venezuela	1	2	0
Israel	1	0	0	Zimbabwe	0	0	1
Italy	2	0	0				
Jamaica	0	1	0	Source: Office of the Registrar			
Japan	0	1	0				
Jordan	1	1	0				

## DEGREES AWARDED BY RESIDENCY CLASSIFICATION, BY STATES, SUMMER QUARTER 1987 THROUGH SPRING QUARTER 1988

	Bach.	Mast.	Ph.D.		Bach.	Mast.	Ph.D.
Alabama	24	13	1	Nevada	1	0	0
Alaska	0	1	0	New Hampshire	2	1	0
Arizona	3	0	0	New Jersey	23	12	3
Arkansas	3	2	0	New Mexico	0	5	0
California	7	13	0	New York	28	32	1
Colorado	1	1	0	North Carolina	25	22	2
Connecticut	6	6	0	North Dakota	0	0	0
Delaware	0	0	2	Ohio	17	10	2
District of Columbia	2	1	0	Oklahoma	2	2	0
Florida	130	65	9	Oregon	0	1	0
Georgia	(see entr	ies by c	ounty)	Pennsylvania	15	17	1
Hawaii	1	0	0	Rhode Island	1	2	0
Idaho	0	0	0	South Carolina	27	20	3
Illinois	3	5	2	South Dakota	0	2	0
Indiana	4	4	0	Tennessee	30	28	2
Iowa	0	2	0	Texas	6	15	1
Kansas	0	3	1	Utah	0	0	0
Kentucky	13	11	0	Vermont	3	2	0
Louisiana	6	7	1	Virginia	18	21	0
Maine	2	0	0	Washington	0	3	0
Maryland	37	10	0	West Virginia	3	4	0
Massachusetts	4	5	1	Wisconsin	0	4	1
Michigan	5	6	0	Wyoming	1	0	0
Minnesota	1	2	0	Other U.S. Territories	& Possess	sions	
Mississippi	8	3	0	Guam	0	0	0
Missouri	4	2	1	Puerto Rico	7	6	1
Montana	0	1	0	Virgin Islands	2	0	0
Nebraska	0	0	0				
				Source: Office of the Pagistrer			

## DEGREES AWARDED BY RESIDENCY CLASSIFICATION, BY GEORGIA COUNTIES SUMMER QUARTER 1987 THROUGH SPRING QUARTER 1988

	Bach.	Mast.	Ph.D.		Bach.	Mast.	Ph.D.		Bach.	Mast.	Ph.D.
Appling	0	0	0	Evans	0	0	0	Newton	4	1	0
Atkinson	1	0	0	Fannin	0	0	0	Oconee	0	3	0
Bacon	0	0	0	Fayette	13	1	0	Oglethorpe	1	0	0
Baker	0	0	0	Floyd	14	2	0	Paulding	2	0	0
Baldwin	7	0	0	Forsyth	5	0	0	Peach	4	0	0
Banks	1	0	0	Franklin	1	1	0	Pickens	0	0	0
Barrow	2	0	0	Fulton	198	72	7	Pierce	0	0	0
Bartow	6	1	0	Gilmer	2	1	0	Pike	2	0	0
Ben Hill	0	1	0	Glascock	0	0	0	Polk	1	1	0
Berrien	2	1	0	Glynn	5	0	0	Pulaski	0	0	0
Bibb	30	3	0	Gordon	2	0	0	Putnam	l	0	0
Bleckley	0	0	0	Grady	0	0	0	Quitman	0	0	0
Brantley	0	0	0	Greene	0	0	0	Rabun	3	0	0
Brooks	0	0	0	Gwinnett	74	23	0	Randolph	0	0	0
Bryan	1	0	0	Habersham	2	0	0	Richmond	19	4	0
Bulloch	5	1	0	Hall	14	1	0	Rockdale	12	0	0
Burke	0	0	0	Hancock	0	0	0	Schley	0	0	0
Butts	2	0	0	Haralson	2	0	0	Screven	0	0	0
Calhoun	1	0	0	Harris	0	0	0	Seminole	0	0	0
Camden	1	0	0	Hart	6	0	0	Spalding	10	1	0
Candler	1	0	0	Heard	0	0	0	Stephens	5	1	0
Carroll	8	1	0	Henry	6	1	0	Stewart	0	0	0
Catoosa	5	0	0	Houston	13	6	0	Sumter	1	0	0
Charlton	0	0	0	Irwin	1	0	0	Talbot	1	0	0
Chatham	32	4	2	Jackson	4	0	1	Taliaferro	0	0	0
Chattahooche		0	0	Jasper	1	0	0	Tattnall	0	1	0
Chattooga	1	0	0	Jeff Davis	ī	0	0	Taylor	0	0	0
Cherokee	14	1	0	Jefferson	1	0	0	Telfair	0	0	0
Clarke	9	5	Ö	Jenkins	0	0	0	Terrell	0	0	0
Clay	1	0	Ö	Johnson	0	0	0	Thomas	3	1	0
Clayton	47	6	Ö	Jones	3	0	0	Tift	3	1	0
Clinch	0	0	Ö	Lamar	1	1	0	Toombs	5	0	0
Cobb	128	41	3	Lanier	0	0	0	Towns	0	0	0
Coffee	3	0	0	Laurens	8	0	0	Treutlen	0	0	0
Colquitt	2	1	0	Lee	2	0	0	Troup	8	0	0
Columbia	10	0	0	Liberty	2	1	0	Turner	0	0	Ō
Cook	0	0	0	Lincoln	0	0	ő	Twiggs	ő	0	Õ
Coweta	8	0	0	Long	0	0	0	Union	0	0	Õ
Crawford	2	0	0	Lowndes	6	1	0	Upson	2	0	0
Crisp	1	0	0	Lumpkin	0	0	Ö	Walker	5	1	0
Dade	0	0	0	Macon	1	0	0	Walton	2	Ô	ő
Dawson	1	0	0	Madison	1	0	0	Warton	1	0	ő
Decatur	2	2	0	Marion	0	0	0	Warren	0	0	0
DeKalb	274	73	5	McDuffie	4	0	0	Washington	0	0	0
Dodge	0	0	0	McIntosh	0	0	0	Wayne	2	0	0
Dooly	1	0	0	Meriwether	1	0	0	Webster	0	0	0
•	16	5	0	Miller	0	0	0	Wheeler	0	0	0
Dougherty				Mitchell	0	0	0	White	1	0	0
Douglas	18	1	0		-	0	0	Whitfield	15	2	0
Early Eahala	1	0	0	Monroe	0			Wilcox	0	0	0
Echols	0	0	0	Montgomery	0	0	0	Wilkes		0	
Effingham	4	0	0	Morgan	0	0	0		1		0
Elbert	2	0	0	Murray	1	1	0	Wilkinson	1	0	0
Emanuel	1	0	0	Muscogee	27	2	0	Worth	1	0	0
Source: Office	e of the	Registrar						Total	1,189	278	18

## Corporate Relations and Placement

The Office of Corporate Relations and Placement is located in the Fred W. Ajax Placement Center on Hemphill Avenue. The office coordinates the Institute's annual corporate development effort, which totaled over \$9.6 million in 1986-87. In addition, the office serves the Georgia Tech community with a variety of placement services, including opportunities for full-time, as well as part-time, temporary, and summer employment. One of the primary objectives of the office is to assist students in determining their

career objectives and in attaining career and employment goals.

A library that includes information on specific employers, governmental services, and special publications related to employment is maintained at the Placement Center facility. Also, the office keeps local and national salary data, employment patterns of Georgia Tech graduates (employers, types of

positions, and work locations), and graduate and professional school information. Other services include seminars on the employment process, résumé preparation, effective interviewing techniques, and letter writing campaigns. In addition, the office issues a résumé book and maintains an open résumé file for employer review.

Assistance is available to employers in the planning, implementation, and administration of programs that encourage effective corporate-campus relations at

Georgia Tech. This service includes stimulating and encouraging corporate support through financial grants, fellowships, scholarships, faculty support, and equipment.

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

Source: Office of the Director, Corporate Relations and Placement



## **Employing Organizations**

### Employing Organizations' Activities at Georgia Tech, 1987-88

#### **Top Recruiting Organizations**

**Top Hiring Organizations** 

U.S. Government

General Electric

McDonnell Douglas

United Technologies

Procter & Gamble

Schlumberger

IBM

Motorola

Milliken

Harris

Texas Instruments

Frito Lay

DuPont

AT&T

General Dynamics

Alcoa

Amoco

Westinghouse

Martin Marietta

**NCR** 

Florida Power & Light

Kurt Salmon & Associates

Exxon

Arthur Andersen & Co.

Square D

Federal Reserve Bank

Northern Telecom

Data General

Rockwell International

Kimberly Clark

Noxell Corp.

**GTE** 

Dow Chemical

Hewlett-Packard

Northrop

Southern Bell

Babcock & Wilcox

Union Carbide

Ford

Lockheed

Wrangler

E-Systems

Watkins-Johnson

Georgia Power

York

Intel

Westvaco

Hughes

Tennessee Eastman

Chevron

Honeywell

IBM

Georgia Tech

Milliken

Florida Power and Light

Georgia Power

McDonnell Douglas

Schlumberger

General Dynamics

AT&T

Ford

General Electric

Kurt Salmon & Assoc.

Martin Marietta

Mobil

Procter & Gamble

Southern Bell

**United Technologies** 

Alcoa

Arthur Andersen & Co.

Bell Northern Research

Campus Crusade for Christ

Chevron

Ciba-Geigy

Coca-Cola

Compag

Data General

Digital Equipment

DuPont

**Emory University** 

Exxon

Factory Mutual Engineering

NCNB

Northrop

Oglethorpe Power Co.

Radian Corp.

Scientific Atlanta

Trust Company Bank

Source: Office of the Director, Corporate Relations and Placement

# Starting Salaries

## 1987-88 AVERAGE STARTING SALARIES REPORTED BY EMPLOYERS 1 July 1987-30 June 1988

	1987-1988 Average/ # Offers	1986-1987 Average/ # Offers	CHANGE	
Overall	\$2,372/ 805	\$2,426/ 764	-2.3%	
Bachelor's	\$2,248/ 605	\$2,293/ 582	-2.0%	
Master's	\$2,658/ 187	\$2,726/ 159	-2.6%	
Ph.D.	\$3,634/ 13	\$3,714/ 23	-2.2%	

#### BY COLLEGE

	Overall Average/# Offers	Bachelor's Average/# Offers	Master's Average/# Offers	Ph.D. Average/# Offers
Architecture	0	0	0	0
Engineering	\$2,652/ 645	\$2,394/ 511	\$2,663/ 122	\$3,275/ 12
Management	\$2,359/ 81	\$1,962/ 55	\$2,756/ 26	0
COSALS	\$2,501/ 79	\$2,014/ 39	\$2,630/ 39	\$4,292/ 1

#### **BY MAJOR**

	High	Low	Average/	Average/#Offers	
Major					
Aerospace Engineering					
Bachelor's	\$2,600	\$2,309	\$2,508/	12	
Master's	\$2,834	\$2,385	\$2,676/	5	
Ph.D.	\$2,500	\$2,500	\$2,500/	1	
Biology					
Bachelor's	\$1,666	\$1,666	\$1,666/	1	
Chemical Engineering					
Bachelor's	\$2,780	\$2,639	\$2,651/	75	
Master's	\$3,000	\$2,792	\$2,949/	2	
Ph.D.	\$4,000	\$3,417	\$3,773/	8	
Chemistry					
Bachelor's	\$1,380	\$1,380	\$1,380/	2	
Master's	\$2,166	\$2,166	\$2,166/	1	
Civil Engineering					
Bachelor's	\$2,600	\$1,917	\$2,213/	43	
Master's	\$2,308	\$2,308	\$2,308/	1	
Electrical Engineering					
Bachelor's	\$2,700	\$2,370	\$2,541/	146	
Master's	\$3,375	\$2,960	\$2,986/	55	
Ph.D.	\$3,375	\$3,275	\$3,325/	2	

## Starting Salaries

Engineering Science and Mechanics Bachelor's	\$2,585	\$2,542	\$2,563/	2
Geophysical Sciences			00.0554	10
Master's	\$2,600	\$2,083	\$2,357/	12
Industrial and Systems Engineering				
Bachelor's	\$2,615	\$2,029	\$2,376/	110
Master's	\$3,167	\$2,550	\$2,965/	11
Information and Computer Science				
Bachelor's	\$2,542	\$2,100	\$2,227/	34
Master's	\$3,333	\$2,667	\$2,951/	21
Management				
Bachelor's	\$2,167	\$1,667	\$1,962/	55
Master's	\$3,167	\$2,375	\$2,756/	26
Mathematics				
Bachelor's	\$2,366	\$2,366	\$2,366/	1
Master's	\$3,250	\$3,000	\$3,083/	3
Mechanical Engineering				
Bachelor's	\$2,660	\$2,050	\$2,410/	103
Master's	\$3,125	\$2,433	\$2,684/	39
Metallurgy/Materials Engineering				
Bachelor's	\$2,475	\$2,000	\$2,238/	2
Master's	\$2,800	\$2,700	\$2,733/	3
Ph.D.	\$3,500	\$3,500	\$3,500/	1
Nuclear Engineering				
Bachelor's	\$2,542	\$1,605	\$2,201/	9
Physics				
Bachelor's	\$2,430	\$2,430	\$2,430/	1
Master's	\$2,872	\$2,311	\$2,592/	2
Ph.D.	\$4,292	\$4,292	\$4,292/	1
Textile Engineering				
Bachelor's	\$2,350	\$2,024	\$2,251/	9
Master's	\$2,000	\$2,000	\$2,000/	1

Source: Corporate Relations and Placement

# Post-Graduation Plans

#### REPORTED POST-GRADUATION PLANS

The following is a summary of post-graduation plans for 1987-1988 Georgia Tech graduates who reported their plans to the Office of Corporate Relations and Placement:

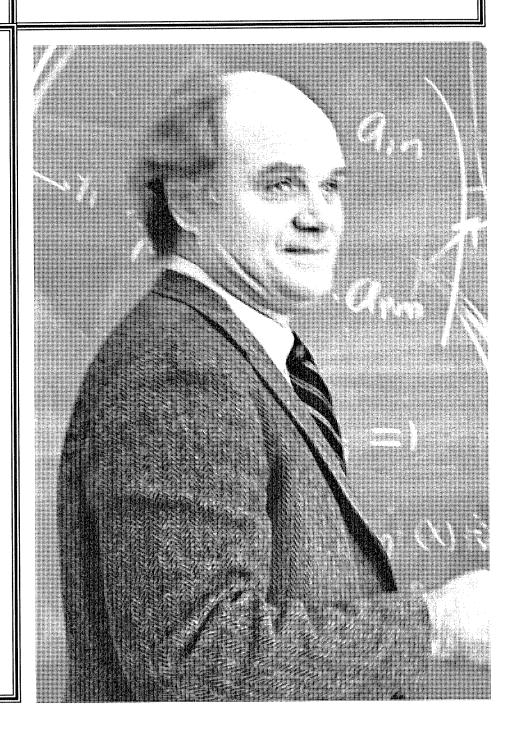
College	Number Reporting		Accepted mployment		raduate school		tering ilitary		ntinuing Search
		· S	September 1987	' Graduat	es				
Architecture	5	5	(100%)	0	(0%)	0	(0%)	0	(0%)
Engineering	145	130	(90%)	9	(6%)	1	(1%)	5	(3%)
Management	26	24	(92%)	0	(0%)	0	(0%)	2	(8%)
COSALS	19	18	(95%)	0	(0%)	0	(0%)	1	(5%)
Total	195	177	(91%)	9	(4%)	1	(1%)	8	(4%)
		[	December 1987	Graduate	es				
Architecture	5	5	(100%)	0	(0%)	0	(0%)	0	(0%)
Engineering	52	37	(71%)	4	(8%)	3	(6%)	8	(15%)
Management	9	5	(56%)	1	(11%)	0	(0%)	3	(33%)
COSALS	6	5	(83%)	0	(0%)	0	(0%)	1	(17%)
Total	72	52	(72%)	5	(7%)	3	(4%)	12	(17%)
			March 1988 G	raduates					
Architecture	0	0	(0%)	0	(0%)	0	(0%)	0	(0%)
Engineering	48	45	(94%)	0	(0%)	0	(0%)	3	(6%)
Management	3	2	(67%)	0	(0%)	0	(0%)	1	(33%)
COSALS	5	5	(100%)	0	(0%)	0	(0%)	0	(0%)
Total	56	52	(93%)	0	(0%)	0	(0%)	4	(7%)
			June 1988 Gr	aduates					
Architecture	7	7	(100%)	0	(0%)	0	(0%)	0	(0%)
Engineering	146	120	(82%)	12	(8%)	4	(3%)	10	(7%)
Management	29	26	(79%)	1	(4%)	0	(0%)	5	(17%)
COSALS	22	21	(95%)	0	(0%)	0	(0%)	1	(5%)
Total	204	171	(84%)	13	(6%)	4	(2%)	16	(8%)
		T	otal 1987-1988	Graduate	<b>?</b> S				
Architecture	17	17	(100%)	0	(0%)	0	(0%)	0	(0%)
Engineering	391	332	(85%)	25	(6%)	8	(2%)	26	(7%)
Management	67	54	(81%)	2	(3%)	0	(0%)	11	(16%)
COSALS	52	49	(94%)	0	(0%)	0	(0%)	3	(6%)
Total	527	452	(86%)	27	(5%)	8	(1%)	40	(8%)

Source: Office of Corporate Relations and Placement

## FACULTY/STAFF PROFILES

1988-89

FACT BOOK



## Chairs and Professorships

#### NAME OF CHAIR OR PROFESSORSHIP

CHAIR HOLDER

DEPARTMENT,

SCHOOL, OR COLLEGE

In the College of Sciences and Liberal Studies:

Julius Brown Chair \_\_\_\_

Chemistry

Vasser Wooley Chair

Herbert O. House

Chemistry

IBM Distinguished Professorship

•

Information & Computer Sci.

Melvin Kranzberg Professorship in History of Technology

Bruce Sinclair

Social Sciences

Southern Bell Telephone and Telegraph Company Professorship

in Communications Policy

Social Sciences

\* \* \* \* \* \* \* \*

NAME OF CHAIR OR PROFESSORSHIP

CHAIR HOLDER

DEPARTMENT,

SCHOOL, OR COLLEGE

In the College of Engineering:

Fuller E. Callaway Chair	John L. Lundberg	College of Engineering
A. Russell Chandler III Chair for Distinguished Faculty	George L. Nemhauser	College of Engineering
Coca-Cola Chair in Material Handling and Distribution	Ellis L. Johnson	College of Engineering
Eugene C. Gwaltney, Jr. Chair in Manufacturing Systems	John A. White	College of Engineering
Julian T. Hightower Chair in Engineering		College of Engineering
B. Mifflin Hood Professorship in Materials Engineering	Alan T. Chapman	College of Engineering
J. Erskine Love, Jr. Institute Chair in Engineering		College of Engineering
Parker H. Petit Chair for Engineering in Medicine (Healthdyne)	Robert M. Nerem	College of Engineering
David S. Lewis Chair	<del>_</del> ·	Aerospace Engineering
John O. McCarty/Audichron Chair	Ronald W. Schafer	Electrical Engineering
Byers Eminent Scholars Chair in Microelectronics	Carl M. Verber	Electrical Engineering
Julius Brown Chair	Thomas K. Gaylord	Electrical Engineering
Georgia Power Distinguished Professorship	Ajeet Rohatgi	Electrical Engineering
Georgia Power Distinguished Professorship	Roger P. Webb	Electrical Engineering
Joseph M. Pettit Chair		Electrical Engineering

# Chairs and Professorships

Protessorships		
Schlumberger Chair in Microelectronics	Phillip E.Allen	Electrical Engineering
Morris M. Bryan, Jr. Chair	Vijay A.Tipnis	Mechanical Engineering
Fuller E. Callaway Chair, Nuclear Engineering and Health Physics	Weston M. Stacey	Mechanical Engineering
Georgia Power Distinguished Professorship	S. Peter Kezios	Mechanical Engineering
Georgia Power Professorship in Nuclear Engineering	S.I. Abdel-Khalik	Mechanical Engineering
Frank H. Neely Professorship in Nuclear Engineering and Health Physics		Mechanical Engineering
George W. Woodruff Chair in Mechanical Engineering, Energy Systems		Mechanical Engineering
George W. Woodruff Chair in Mechanical Engineering, Mechanical Systems		Mechanical Engineering
***		
NAME OF CHAIR OR PROFESSORSHIP	CHAIR HOLDER	DEPARTMENT, SCHOOL, OR COLLEGE

### In the College of Management:

Fuller E. Callaway Chair	Eugene E. Comiskey	Management
Mills B. Lane Professorship in Finance & Banking Management	_	Management
Hal and John Smith Chair of Small Business and Entrepreneurship	_	Management
Thomas R. Williams Chair	_	Management

Source: Office of the Associate Vice-President

## Faculty Degrees

## INSTITUTIONS AWARDING HIGHEST DEGREES TO MEMBERS OF THE ACADEMIC FACULTY (As of Fall Quarter 1988)

## # per Institution Institutions

- 66 Georgia Institute of Technology
- 41 Massachusetts Institute of Technology
- 31 University of Illinois, Urbana-Champaign
- 20 Stanford University; Emory University
- 18 University of Wisconsin, Madison; University of Michigan, Ann Arbor; Ohio State University
- 16 University of Florida, Gainesville; Princeton University; Purdue University
- 14 University of California, Berkeley; University of Pennsylvania
- 12 Cornell University
- 11 Harvard University
- 10 Columbia University
- 8 Georgia State University; Northwestern University
- 7 California Institute of Technology; North Carolina State University, Raleigh; Tulane University of Louisiana; University of Chicago; University of North Carolina, Chapel Hill; University of Washington; Washington University
- 6 Brown University; Rice University; University of California, Los Angeles; University of Georgia; University of London; University of Maryland, College Park Campus; University of Texas, Austin; University of Virginia
- 5 Carnegie-Mellon University; Case Western Reserve University; Indiana University,

Bloomington; Johns Hopkins University; Michigan State University; University of Minnesota, Minneapolis-Saint Paul; University of Rochester; Yale University

- 4 Duke University; Florida State University; University of Southern California; Virginia Polytechnic Institute and State University
- 3 Auburn University; Illinois Institute of Technology; Israel Institute of Technology; Louisiana State University, Baton Rouge; Pennsylvania State University; University of Cincinnati; University of Delaware; University of Houston, University Park; University of Colorado, Boulder; University of Iowa; University of Kansas; University of Massachusetts, Amherst Campus; University of Missouri, Columbia; University of Notre Dame; University of Pittsburgh; University of Tennessee, Knoxville
- 2 Atlanta University; George Peabody College; Imperial College of Science and Technology; Kansas State University of Agriculture and Applied Science; Oklahoma State University; Oregon State University; Rensselaer Polytechnic Institute; Rockefeller University; State University of New York, Stony Brook; State University of New York College, Buffalo; University of Akron; University of California, Davis; University of California, San Diego; University of Connecticut; University of Illinois, Chicago Circle; University of Utah; University of Waterloo, Canada
- 1 Sixty-one other institutions

Total: 653 academic faculty

## Faculty Profile

## FULL-TIME INSTRUCTIONAL FACULTY PROFILE BY COLLEGE\* (As of June 1988) DISTRIBUTION BY RANK

	Professor		Associate Professor		Assistant Professor		Instructor		Total
College	#	%	#	%	#	%	#	%	#
Engineering	119	46.7	67	26.3	68	26.7	1	0.3	255
Sciences and Liberal Studies	85	39.9	74	34.8	42	19.7	12	5.6	213
Architecture	9	26.5	16	47.0	9	26.5	_		34
Management	16	35.6	13	28.8	16	35.6	******		45
Total	229	41.8	170	31.1	135	24.7	13	2.4	547

#### DISTRIBUTION BY HIGHEST DEGREE

							Bad	:helor's /	
	D	octorate	Spe	ecialist	P	Master's		Other	Total
College	#	%	#	%	#	%	#	%	#
Engineering	248	97.3			4	1.5	3	1.2	255
Sciences and Liberal Studies	192	90.1	_		20	9.4	1	0.5	213
Architecture	12	35.3			19	55.9	3	8.8	34
Management	45	100.0	_	-		_	_		45
Total	497	90.9			43	7.8	7	1.3	547

#### DISTRIBUTION BY RACE AND SEX

College	Black Male	White Male	Other <b>M</b> ale	Black Female	White Female	Other Female	Total
Engineering	4	208	37	1	5	0	255
Sciences and Liberal Studies	1	175	10	1	26	0	213
Architecture	2	29	0	0	3	0	34
Management	2	31	8	0	4	0	45
Total	9	443	55	2	38	0	547

<sup>\*</sup> Includes only those persons with academic rank; does not include academic administrators.

## Faculty Profile

## FULL-TIME INSTRUCTIONAL FACULTY PROFILE BY UNIT\* (As of June 1988) DISTRIBUTION BY SEX, PERCENT TENURED, AND PERCENT DOCTORATES

UNIT	To M	tal # F	Prof M	fessor F		ociate fessor F		sistant fessor F	Ins M	tructor F	Percent Tenured	Percent Doctorates
College of Engineering												
Aerospace Engineering Materials Engineering Chemical Engineering Civil Engineering Electrical Engineering Industrial & Systems Eng. Mechanical Engineering Nuclear Engineering Textile	26 10 19 38 56 35 43 12 10		16 6 9 17 27 15 17 8 4		5 2 9 12 11 13 10 2 3		4 2 1 9 18 7 16 2 3	1  3 2 	     	    	50.0% 50.0% 78.9% 71.1% 58.9% 68.4% 46.7% 58.3% 50.0%	92.3% 100.0% 95.0% 97.4% 98.2% 94.7% 100.0% 100.0%
College of Sciences and Liberal Stud	lies											
Biology Chemistry English Geophysical Sciences Information & Computer Sys. Mathematics Modern Languages Physical Ed. & Recreation Physics Psychology Social Sciences	11 27 19 12 19 37 4 3 25 13		2 22 4 8 4 15 — 16 6 5	3	5 3 7 4 5 18 2 2 5 5 9		4 2 5 — 10 4 1 1 4 2 2			5  -1 2 	45.5% 85.2% 55.9% 91.7% 42.1% 78.4% 44.4% 50.0% 65.4% 61.5% 78.9%	100.0% 100.0% 70.6% 100.0% 94.7% 91.9% 78.8% 33.3% 100.0% 100.0% 94.7%
College of Architecture	31	3	9		14	2	8	1	_	_	55.9%	35.3%
College of Management	41	4	16		13		12	4	and and		46.7%	100.0%
TOTAL FOR INSTITUTE  Percentage of Total	507 92.7	40 7.3	226 41.3	3 0.5	159 29.1	11 2.0	117 21.4	18 3.3	5 0.9	8 1.5	61.1%	90.1%

<sup>\*</sup>Includes only those persons with academic rank; does not include academic administrators.

### Faculty Profile

#### ACADEMIC FACULTY PROFILE BY POSITION CLASSIFICATION\* (As of June 1988) DISTRIBUTION BY RANK

	Professor	Associate Professor	Assistant Professor	Instructor	Total
Full-Time Teaching Faculty	229	170	135	13	547
General Administrators	16	3	1	1	21
Academic Administrators	35	11	0	0	46
Librarians	1	4	2	0	7
On-Leave	7	8	5	0	20
Part-Time Faculty**	2	4	4	2	12
Total	290	200	147	16	653

#### DISTRIBUTION BY HIGHEST DEGREE

		Ed. Spec/		
	Doctorate	Master's	Bachelor's	Total
Full-Time Teaching Faculty	497	43	7	547
General Administrators	16	5	0	21
Academic Administrators	40	4	2	46
Librarians	0	7	0	7
On-Leave	20	0	0	20
Part-Time Faculty**	5	6	1	12
Total	578	65	10	653

#### **DISTRIBUTION BY RACE AND SEX**

	Black Male	White <b>M</b> ale	Other <b>M</b> ale	Black Female	White Female	Other Female	Total
Full-Time Teaching Faculty	9	443	55	2	38	0	547
General Administrators	0	15	0	0	6	0	21
Academic Administrators	0	41	2	1	2	0	46
Librarians	0	2	0	1	4	0	7
On-Leave	0	17	0	1	2	0	20
Part-Time Faculty**	0	9	0	0	3	0	12
Total	9	527	57	5	55	0	653

Includes only those persons with academic rank.

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

## Faculty Profile

## RESEARCH PERSONNEL PROFILE (As of 30 September 1988)

#### **RESEARCH FACULTY**

#### **DISTRIBUTION BY RANK**

	Principal E/S/T/A <sup>d</sup>	Senior E/S/T/A	Research II E/S/T/A	Research I E/S/T/A	Postdoctoral Fellows	Total
Full-Time GTRI	79	198	206	180	3	666
Full-Time Academic*,°	15	47	66	63	25	217
Part-Time GTRI <sup>b</sup>	10	13	6	3	0	32
Part-Time Academic	1	5	3	2	1	12
Total <sup>o</sup>	105	263	281	248	29	927

#### **DISTRIBUTION BY HIGHEST DEGREE**

		First	Ed. Spec./		No			
	Doctorate	Professional <sup>i</sup>	Master's	Bachelor's	Other	Degree	Total	
Full-Time GTRI	117	2	339	197	5	6	666	
Full-Time Academic*,*	89	2	61	55	4	6	217	
Part-Time GTRI <sup>b</sup>	12	0	10	8	1	1	32	
Part-Time Academic	7	1	4	0	0	0	12	
Total <sup>e</sup>	225	5	414	260	10	13	927	

#### DISTRIBUTION BY RACE AND SEX

	Black Male	White Male	Other Male	Black Female	White Female	Other Female	Total
Full-Time GTRI	7	577	10	3	67	2	666
Full-Time Academic*,°	3	165	21	2	21	5	217
Part-Time GTRI <sup>b</sup>	0	29	1	0	2	0	32
Part-Time Academic	1	5	6	0	0	0	12
Total <sup>e</sup>	11	776	38	5	90	7	927

#### **GRADUATE RESEARCH ASSISTANTS**

Part-Time GTRI <sup>b</sup>	110
Part-Time Academic	821
Total	931

<sup>&</sup>lt;sup>a</sup> Includes OCA

Source: Office of the Executive Vice-President

<sup>&</sup>lt;sup>b</sup> Includes Hourly, Alien, and Adjunct Personnel

<sup>&</sup>lt;sup>c</sup> Includes Visiting/Adjunct Personnel

<sup>&</sup>lt;sup>d</sup> Engineer/Scientist/Technologist/Associate

<sup>&</sup>lt;sup>o</sup> Includes one Non-research titled Professional

f Includes J.D.'s and M.D's

## Faculty Profile

## RESEARCH PERSONNEL PROFILE BY UNIT (As of 30 September 1988)

	Research Faculty	Visiting & Adjunct Research Faculty	Postdoctoral Fellows	GRAs	Total
Engineering College	a <sub>5</sub>	0	0	1	6
Aerospace Engineering	19	0	2	69	90
Chemical Engineering	1	0	3	39	43
Civil Engineering	<sup>a</sup> 17	1	0	47	65
Electrical Engineering	c <sub>19</sub>	0	0	132	151
Engineering Science and Mechanics	1	0	0	0 55	1 57
Industrial and Systems Engineering	2 2	0	2	33	37
Materials Engineering Mechanical Engineering	9	0	5	119	133
Textile Engineering	b <sub>1</sub>	0	0	11	12
		•	_		
Architecture	8	1	0	41	50
COSALS	0	0	0	0	0
Biology	0	1	0	8	9
Chemistry	9	1	9	45 0	64 0
English	0	0	0	_	
Geophysical Sciences	d <sub>11</sub>	1	0 0	32 41	44 52
Information and Computer Sciences	11	0	0	7	7
Mathematics Physics	0 8	0	3	31	42
Psychology	0	0	ő	24	24
Social Sciences	ő	ŏ	Ō	8	8
Management	1	0	0	46	47
Advanced Technology Development Center	9	0	0	0	9
Continuing Education	b <sub>1</sub>	0	0	0	1
Corporate Relations	0	0	0	1	1
Nuclear Research Center	5	0	0 0	6 0	11
Office of Computing Services Office of Contract Administration (GTRI & RI)	0 22	0	0	0	22
	b,e,f <sub>29</sub>	2	2	24	f <sub>57</sub>
Office of Interdisciplinary Programs Office of Minority Educational Development	0	0	0	0	0
Office of the President	b <sub>1</sub>	0	0	0	1
Radiation Safety	2	0	0	1	3
Vice-President Research	c3	0	0	0	3
Vice-President Research		Ū	O		
Subtotal	<sup>f</sup> 196	7	26	821	f <sub>1,050</sub>
Georgia Tech Research Institute	663	3	3	110	779
Total	f <sub>859</sub>	10	29	931	f <sub>1,829</sub>

a 1 shared from GTRI

Source: Office of the Executive Vice-President

b 1 shared to GTRI

<sup>&</sup>lt;sup>c</sup> 2 shared from GTRI

d 2 shared to GTRI

e 9 shared from GTRI

f includes 1 non-research titled

### Employee Profile

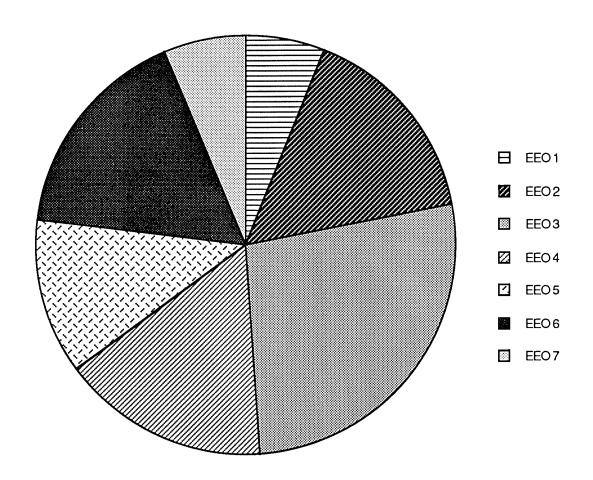
## TOTAL EMPLOYEE PROFILE (As of January 1988)

EEO		White		Black		Other *		Total	
Code	Category	Male	Female	Male	Female	Male	Female	Male	Female
1	Executive, Administrative, Managerial	162	56	10	5	0	1	172	62
2	Faculty-Academic <sup>b</sup>	481	70	8	7	48	0	537	77
3	Research Faculty & Other Professionals	714	252	17	39	18	2	749	293
4	Clerical and Secretarial	44	352	38	183	2	9	84	544
5	Technical and Para-Professional	252	140	32	26	11	4	295	170
6	Skilled Crafts	118	5	50	2	1	0	169	7
7	Service and Maintenance	35	6	144	65	3	0	182	71
	1988 TOTAL	1,806	881	299	327	83	16	2,188	1,224

<sup>\*</sup>Includes Hispanic, Asian, and Native Americans.

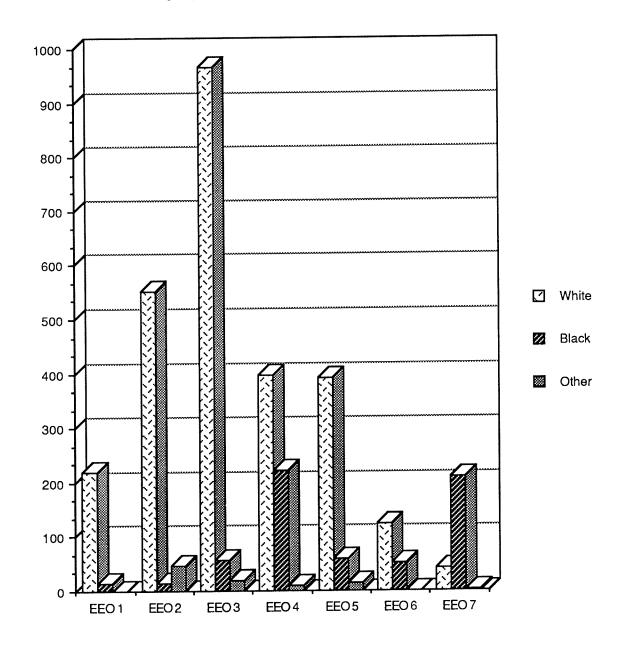
Source: Work Force Analysis

#### **Total Employee Profile by EEO Category**

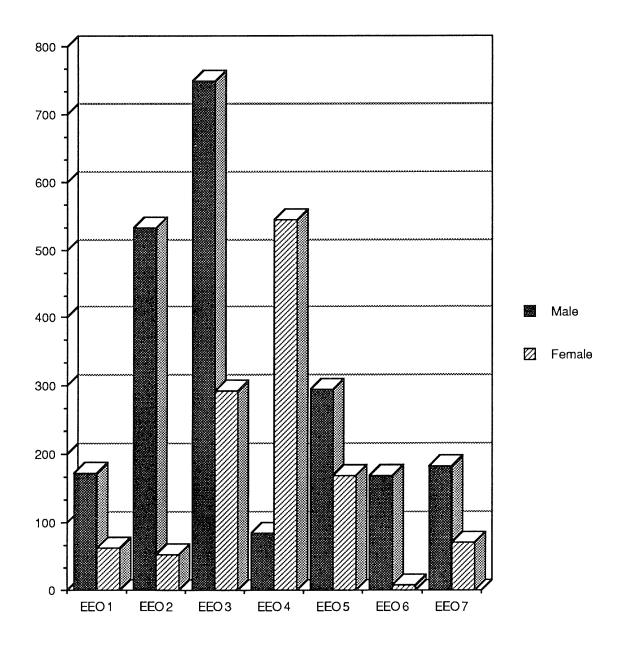


<sup>&</sup>lt;sup>b</sup>Includes librarians.

### **Employee Profile by EEO Category**



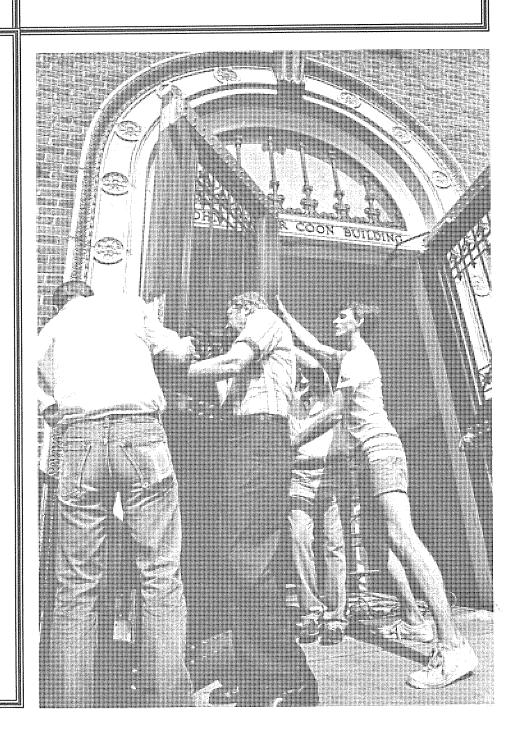
### **Employee Profile by EEO Category**



# GENERAL INFORMATION

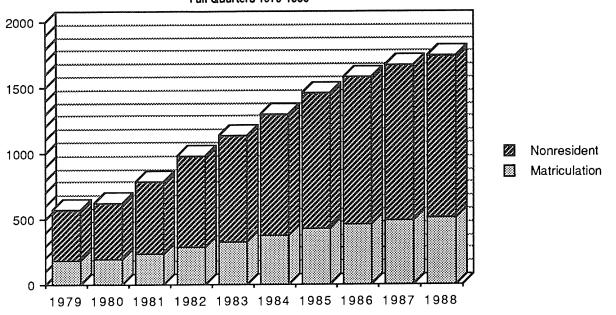
1988-89

FACT BOOK



Fees

## MATRICULATION AND NONRESIDENT TUITION FEES Fall Quarters 1979-1988



MATRICULATION AND NONRESIDENT TUITION FEES, FALL QUARTERS 1979-80 / 1988-89

YEAR	MATRICULATION FEE (Resident and Nonresident)	NONRESIDENT TUITION FEE	TOTAL NONRESIDENT FEE (Matriculation and Tuition)
1979-80	\$185.00	\$389.00	\$574.00
1980-81	195.00	430.00	625.00
1981-82	236.00	550.00	786.00
1982-83	285.00	696.00	981.00
1983-84	328.00	800.00	1,128.00
1984-85	377.00	920.00	1,297.00
1985-86	424.00	1,035.00	1,459.00
1986-87	460.00	1,123.00	1,583.00
1987-88	487.00	1,187.00	1,674.00
1988-89	506.00	1,234.00	1,740.00

#### **ESTIMATED ACADEMIC YEAR COST (Fall, Winter, Spring Quarters)**

•	1984-85	1985-86	1986-87	1987-88	1988-89
Matriculation (Full-Time Student)	\$1,131.00	\$1,272.00	\$1,380.00	\$1,461.00	1,518.00
Other Mandatory Fees:					
Student Activity	90.00	90.00	90.00	90.00	114.00
Student Athletic	75.00	75.00	75.00	87.00	87.00
Student Health	102.00	123.00	132.00	141.00	150.00
Transportation	18.00	27.00	27.00	27.00	27.00
Estimated Elective Charges:					
Dormitory Room Rent	1,155.00	1,230.00	1,353.00	1,444.00	1,530.00
Board (Estimate)	1,725.00	1,800.00	1,890.00	1,950.00	1,950.00
Miscellaneous (books, supplies, personal)	975.00	1,050.00	1,107.00	1,155.00	1,155.00
TOTAL ESTIMATED COST	\$5,271.00	\$5,667.00	\$6,054.00	\$6,351.00	\$6,531.00

Source: Office of the Vice-President, Business and Finance

## Physical Facilities

### SQUARE FOOTAGE BY FUNCTIONAL AREA FALL 1988

INST		1,,1	IC VNI
	nu		1014

General Academic 923,897

#### **ORGANIZED RESEARCH**

Research Center (GTRI) 421,684 Individual or Project Research 240,830 Total 662,514

#### **PUBLIC SERVICE**

Community Education 19,647

#### **ACADEMIC SUPPORT**

Libraries 140,576
Audio/Visual 3,315
Computing Support 19,599
Academic Administration & Personnel Development 13,519
Total 177,009

#### STUDENT SERVICES

Social and Cultural Development
Counseling and Career Guidance
Student Support
Total

329,816
5,320
780,010
1,115,146

#### INSTITUTIONAL SUPPORT

Executive Management 13,216 Fiscal Operations 28,307 20,900 General Administration Services Logistical Services 21,581 Physical Plant Operations 75,122 Faculty and Staff Services 7,700 Community Relations 11,858 Total 178,684

#### INDEPENDENT OPERATIONS

Outside Agencies 95,816 Investment Property 15,495 Total 111,311

#### **UNASSIGNED**

Scheduled for Renovation 89,076

#### **BUILDING SERVICES**

Circulation, Mechanical, Construction, Custodial 1,701,388

**GRAND TOTAL** 4,978,672

Source: Office of the Vice-President for Facilities

### Library

The Price Gilbert Memorial Library houses one of the nation's largest collections of scientific and technical information. It includes over 2,315,000 volumes and 2,000,000 technical reports, 696,000 government documents, and 150,000 maps. It is an official depository of the U.S. Government Printing Office and the U.S. Patent and Trademark Office.

The catalog record of the Library is online, as a part of its Online Information System (OIS), and is used by faculty, staff, and students through the campus computer network. The OIS also contains other databases, including indexes to the contents of journals and conference proceedings in subjects such as management and computing. This online access is complemented by a campus-wide delivery service of library materials for faculty and staff. Over 500 other commercial and government databases are used for literature searching, reference service and access to statistical information.

The Library's Research Information Services offers fee-based services to teaching and research faculty on campus and to individuals and businesses outside the Georgia Tech community. These services include literature searches and reports on specific subjects tailored to meet client needs and document delivery.

The Institute's membership in the University Center in Georgia allows access to and delivery of materials from thirteen other libraries in the area. There is a reciprocal borrowing agreement between Georgia Tech and Georgia State University. Tech students and faculty also may use the libraries of all other institutions in the University System.

The Library is a member of the Association of Research

Libraries, the Center for Research Libraries, the Association for Library Information, and the Georgia Library Information Network.

Source: Office of the Director, Price Gilbert Memorial Library



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

#### Housing

Twenty-four on-campus residence halls house 3,102 males and 1,098 females, and apartments are provided for 298 married students. The Residence Hall Association (RHA) provides numerous social, academic, and recreational activities. The Off-Campus Housing office provides information to more than 1,000 students per year. Fraternities provide on-campus housing for 950 students.

#### **Health Services**

The Student Health Center is a modern Ambulatory Care Center with facilities for out-patient treatment, X-ray examinations, physical therapy, a medical laboratory, and beds for thirty patients. The staff consists of five full-time physicians, visiting consultants in psychiatry and radiology, registered nurses, physician assistants, and medical technicians. Physicians and dentists on the consulting staff represent all medical and dental specialties; their services are available on a fee-forservice 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**

Georgia Tech offers a dining program carefully designed to offer variety and flexibility on a budget that is right for students. The Tech Express offers services that suit the students' schedules as well as their lifestyles. Several options are available on a quarterly basis. The dining program also offers the convenient Tech Express Card, a meal charge card honored at all six dining facilities on campus.

#### **Campus Police**

The Georgia Tech Campus Police support the educational and research activities of the Institute by providing for the law enforcement, security, and safety needs of the community. The Campus Police are available to provide services to the community twenty-four hours a day, seven 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

### Student Services

computerized interactive guidance and information system; study skills instruction; résumé and job search workshops; and a library of film strips, videotapes, and cassettes containing information about careers.

#### Recreation

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

#### Student Center

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

#### Georgia Tech Bookstore

The Georgia Tech Bookstore is an institutionally owned and operated facility with a staff of thirty-five full-time employees dedicated to fulfilling the needs of students, faculty, and staff. The store is located adjacent to the Student Center and covers approximately 48,000 square feet. In addition to textbooks, the

## Student Services

bookstore also features calculators, school spirit items, clothing, and much more. Tenants in the mall include a travel agency, quick copy center, card and gift shop, hair styling center, computer store, and grocery store.

#### **New Student/Parent Programs**

The student/parent orientation program (FASET) informs new students and their parents about academic programs and requirements and familiarizes them with traditions, activities, and services available to them. A number of programs providing information and support specifically for freshmen are conducted each year. This office also administers the Freshman Referral Service for freshmen on academic warning or probation.

#### Fraternities and Sororities

Located on the campus are thirty-one national social fraternities with a total membership of 2,025 and seven national social sororities with a membership of 475.

#### Student Organizations

Opportunities are provided for student participation in a variety of officially recognized groups. The Student Government Association provides thirteen committees for student involvement. Besides the traditional student newspaper, yearbook, and radio station, there are approximately twenty-three sports/recreation organizations; thirty-five special interest groups; twenty-one religious organizations; fifty-fourdepartmental, professional,

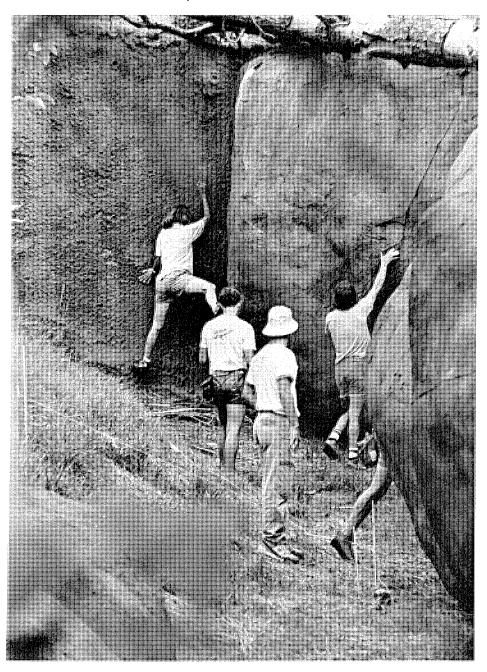
and honor societies; thirteen social service organizations; twelve cultural organizations; and eleven national honor societies. Over 5,000 students are involved in one or more student organizations.

#### **Handicapped Student Services**

Georgia Tech, through the Division of Student Affairs, offers

many services for handicapped students, including assistance with registration, accessibility, parking, transportation, housing, counseling, tutoring, and other individualized needs.

Source: Division of Student Affairs



## Social Fraternities and Sororities

#### MEN'S SOCIAL FRATERNITIES

D Fraternity	ate Established On Campus	Fraternity	Date Established On Campus
Alpha Tau Omega	1888	Sigma Chi	1922
Sigma Alpha Epsilon	1890	Phi Sigma Kappa	1923
Kappa Sigma	1895	Chi Psi	1923
Sigma Nu	1896	Theta Chi	1923
Kappa Alpha Order	1899	Phi Gamma Delta	1926
Phi Delta Theta	1902	Phi Kappa Tau	1929
Chi Phi	1904	Lambda Chi Alpha	1942
Phi Kappa Sigma	1904	Alpha Epsilon Pi	1946
Pi Kappa Alpha	1904	Tau Kappa Epsilon	1948
Sigma Phi Epsilon	1907	Theta Xi	1951
Pi Kappa Phi	1913	Delta Upsilon	1957
Phi Epsilon Pi	1916	Phi Kappa Theta	1966
now Zeta Beta Tau:	merged 1970	Psi Upsilon	1970
Beta Theta Pi	1917	Omega Psi Phi	1976
Delta Sigma Phi	1920	Alpha Phi Alpha	1981
Delta Tau Delta	1921	Kappa Alpha Psi	1982

#### **WOMEN'S SOCIAL SORORITIES**

Sorority	Date Established On Campus
Alpha Xi Delta	1954
Alpha Gamma Delta	1970
Alpha Chi Omega	1974
Alpha Delta Pi	1977
Alpha Kappa Alpha	1979
Delta Sigma Theta	1982
Zeta Tau Alpha	1984

Source: Division of Student Affairs

### Student **Organizations**

#### STUDENT GOVERNING ORGANIZATIONS

#### Purpose

Organization

Board of Student Publications Graduate Student Senate

Interfraternity Council

Intramural Council

Panhellenic

Radio Communications Board

Residence Hall Association

Sports Club Council

Student Athletic Complex Advisory Bd.

Student Center Governing Board

Student Government Association

Governs and coordinates the efforts of the major student publications

Represents graduate students

Governing body of the fraternity system

Provides extracurricular intramural athletic activities

Governing body of the sorority system

Governs the student radio station (WREK)

Represents residents of the residence halls and organizes residence halls

Supervises and evaluates the sports club program

Administers programs serving recreational and athletic interests of the Tech community

Determines policies and procedures of the Student Center

Provides for the involvement of the student body in the operation of the Institute

#### PRODUCTION ORGANIZATIONS Purpose

Organization

Blueprint Georgia Tech's annual

Chorale Performs sacred works and popular contemporary music

DramaTech Theatrical performances

A student publication of art, poetry, prose, and photography Erato

Performs at football games Georgia Tech Yellow Jacket Band Performs at basketball games Pep Band

Concert Band Light concert performances during winter and spring

Performance-oriented jazz group Jazz Ensemble

The Technique Student-run newspaper

WREK Radio Georgia Tech's twenty-four hour a day radio station

#### HONOR SOCIETIES

**Purpose** 

Organization

ANAK Honor

Briarean Society I Promotes high scholarship among Co-op students Recognizes academic achievement of Co-op students Briarean Society II Gamma Beta Phi Society Encourages scholastic effort and rewards academic merit

Golden Key National Honor Society

Recognizes scholastic achievement and excellence in all undergraduate fields Alpha Kappa Chapter, promotes leadership, scholarship, and fellowship among sophomores Lambda Sigma

Omicron Delta Kappa Alpha Eta Circle, promotes leadership

Order of Omega Promotes leadership of fraternity and sorority members

Freshman Honorary Society Phi Eta Sigma

Recognizes superior scholarship in all fields of study Phi Kappa Phi

Georgia Alpha Chapter, honors academic achievements and exemplary character Tau Beta Pi Association

#### **DEPARTMENT HONORARIES**

**Purpose** 

Organization

Industrial engineering Alpha Pi Mu

Biology Beta Beta Beta

Beta Gamma Sigma Business and management Chi Epsilon Civil engineering Omega Chi Epsilon Chemical engineering

Eta Kappa Nu Beta Mu Chapter, electrical engineering Kappa Kappa Psi Promotes the existence and welfare of the band

Keramos Ceramic industries Pi Mu Epsilon Mathematics

Pi Tau Sigma National Honorary Mechanical Engineering Fratemity

Sigma Gamma Tau Aeronautical engineering

Sigma Pi Sigma

Tau Beta Sigma Promotes and serves the Georgia Tech Band

## Student Organizations

#### DEPARTMENT AND PROFESSIONAL SOCIETIES

Organization Purpose

Alpha Kappa Psi Professional business fraternity for IM's and IE's

American Assoc. of Textile Chemists & Colorists New processes in textile manufacture

Ceramic Society Furthers ceramic science, technology, and developments

American Chemical Society Provides professional and personal services to chemical and chemical engineering majors

American Institute of Aeronautics & Astronautics Promotes student/industry relations in aerospace engineering

American Institute of Architects Provides student link to the practice of architecture and those professionals involved

American Institute of Chemical Engineers Strives to build leadership and communication skills

American Institute of Industrial Engineers Encourages industrial engineering awareness on campus and the professional development of

industrial engineers

American Marketing Association Fosters research in the field of marketing

American Nuclear Society Provides a professional society dedicated to the discussion of policy issues affecting nuclear

and radiation protection and other related issues

American Society of Civil Engineers Provides professional, social, and academic development activities

ASHRAE Science and professions relating to heating, refrigeration engineering

American Society of Mechanical Engineers Opportunities and responsibilities of mechanical engineering

Arnold Air Society Develops leadership and dedication in AFROTC cadets

Association for Computing Machinery Promotes and increases knowledge of science, design, development, construction, languages,

and applications of modern computing machinery

Association for Industrial Design Students Promotes field of industrial design

Georgia Society of Professional Engineers Student Chapter, open to all engineering students

Graduate Students in Management Serves as a focal point for graduate management activities

Honorary Accounting Organization Recognizes excellence in the field of accountancy

Institute of Electrical & Electronic Engineers Provides means for student involvement in electrical engineering

Pre-Medical Society Promotes interest in health professions and assists students with career information

Planning Society Promotes Graduate City Planning Program

Society for Advancement of Management Conducts and promotes scientific study of the principles governing organized effort in

industrial and economic life

Society of Automotive Engineers Advances the arts, sciences, standards, and engineering practices connected with the design

and utilization of self-propelled mechanisms, prime movers, and related equipment

Society of Black Engineers Fosters the recruitment, retention, and career development of minorities in engineering

Society of Hispanic Professional Engineers Promotes scholarship and assists Hispanic students in acquiring scholarships

Society of Physics Students Advances and diffuses knowledge of physics

Society of Women Engineers Professional service organization aimed toward informing women engineering students of

opportunities open to them

Student Construction Association Promotes the building construction program

Student Planning Association Promotes city planning programs and student interest with faculty

## Student Organizations

#### SERVICE AND SOCIAL ORGANIZATIONS

Alpha Phi Omega—Gamma Zeta Chapter Angel Flight Cheerleading Squad Circle K Co-op Club Section I Co-op Club Section II
Freshman Council
Phi Psi Fraternity
Ramblin' Reck Club

Young Democrats of Georgia World Student Fund

Reckettes "T" Club

#### **CULTURAL ORGANIZATIONS**

Afro-American Association Chinese Students' Club French Club Hellenic Society India Club
International Folk Dancers
Korean Student Association
League of Latin American Citizens
Lebanon Club

Pakistan Student Organization Spanish Speaking Organization Turkish Students' Organization Vietnamese Student Organization

#### **RELIGIOUS ORGANIZATIONS**

Baptist Student Union
The Branches
Campus Crusade for Christ
Canterbury Association
Catholic Center
Christian Science College Organization
Fellowship of Christian Athletes

Forerunners for Christ Great Commission Hillel Lutheran Campus Ministry Muslim Student Association The Navigators

Orthodox Christian Fellowship

Presbyterian Center
Real Life Fellowship
Tech Christian Fellowship
Unitarian Universalist Campus Ministry
Wesley Foundation
Worldwide Discipleship Association
Y.M.C.A.

#### SPECIAL INTERESTS ORGANIZATIONS

Ballet Club College Bowl Team Cosmic Order of Psi Phi Executive Round Table Health Physics Society Musicians Network Objectivist Society Ranger Company

#### **RECREATION CLUBS**

Chess Club Disc Association Flying Club Radio Club Scuba Jackets
Table Tennis Club

#### **SPORTS CLUBS**

Barbell Club Bowling Club Fencing Club Hockey Club Judo Club Karate Club Lacrosse Club Rowing Club Rugby Club Sailing Club Soccer Club Sport Parachute Club Volleyball Club Water Ski Club Women's Soccer Club Women's Swimming Club

Source: Division of Student Affairs

The Georgia Tech athletic tradition is almost as old as the school itself and contributes an important part to the Tech heritage. The first football team was formed in 1892, and from that initial season until 1903 it 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 eighty-four years, Tech has had only eight full-time head football coaches: John Heisman, Bill Alexander, Bobby Dodd, Bud Carson, Bill Fulcher, Pepper Rodgers, Bill Curry, and Bobby Ross.

The Tech football history includes such notable events as three national championships (1917, 1928, and 1952), twenty-three bowl game appearances (fifteen wins, eight losses), and forty-four All-American citations. The Tech legend includes more than football, however, and many great names have made sports history at Georgia Tech—Bobby Jones and Larry Mize (golf); Roger Kaiser, Rich Yunkus, and Mark Price (basketball); Ed Hamm (trackworld record holder and Olympic performer); and Antonio McKay (Olympic gold and bronze medalist in track and field)

\*\*\*

#### Athletic Association

The Georgia Tech Athletic Association is a nonprofit organization responsible for maintaining the intercollegiate athletic program at Georgia Tech. The Athletic Association is overseen by The Georgia Tech Athletic Board, chaired by the President of the Institute and composed of seven faculty members, three alumni

members, and three student members. The on-going operations of the Athletic Association are managed by the Director of Athletics, Dr. Homer Rice, and his staff.

The Athletic Association consists of the following areas of operations: Business, Development, Finance, Accounting, Ticketing, Academics, Marketing and

## Athletic Association

#### THE ATHLETIC ASSOCIATION

#### Chairman:

Dr. John Patrick Crecine President

#### Vice-Chairman:

Dr. William M. Sangster

Dean, College of Engineering

Faculty:

Dr. Henry C. Bourne, Jr.
Professor, Electrical Engineering

Dr. Robert McMath

Professor, School of Social Sciences

Dr. Carole E. Moore

Assistant Vice-President for Student Affairs

Dr. William A. Schaffer

Professor, College of Management

Dr. Gerald Theusen

Professor, School of Industrial and

Systems Engineering

Dr. Mark Smith

Assistant Professor, College of Engineering

#### Alumni:

Mr. J. Randall Carroll
Stone Mountain, Georgia
Mr. George H. Brodnax III
Atlanta, Georgia
Mr. Dan McKeever
Atlanta, Georgia

#### Students:

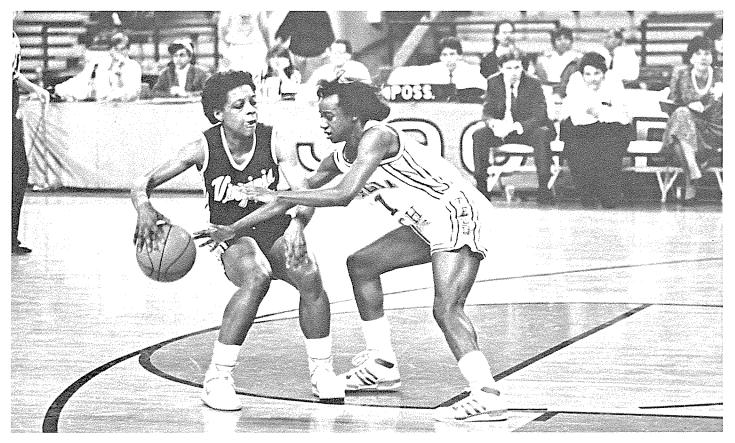
Mr. Tom Hammonds
Student-Athlete Representative
Ms. Sharon Just
Student Body President
Mr. Jim Cage
Editor, the Technique

#### **Honorary Members:**

Mr. R.H. Tharpe, Sr. Atlanta, Georgia Mr. Arthur Howell Atlanta, Georgia

Promotions, Sports Information, Sports Medicine, Football, Basketball, and Non-Revenue Sports. In addition, the Alexander-

### Athletic Association



Tharpe Fund raises funds to support intercollegiate athletics. The Fund offers scholarships and other forms of assistance to student-athletes at Tech.

Tech has some of the finest facilities in the nation, including, for example, the multi-million dollar Arthur B. Edge Athletics Center, which houses Tech's administrative and coaching staffs, a dining hall, locker, training and weight room facilities, as well as the Andrew Hearn, Sr. Academic Center. Tech's athletic plant also features the 46,000-seat Bobby Dodd Stadium/Grant Field for football, the newly-

renovated 9,500-seat Alexander Memorial Coliseum for basketball, the James Luck, Jr. Building that houses basketball locker rooms, and the Russ Chandler Stadium for baseball, as well as the Bill Moore Tennis Complex (which features both indoor and outdoor courts) and the state-of-the-art George C. Griffin Track complex and Morris Bryan Stadium.

The Georgia Tech Athletic Association is a service organization for several constituent groups: Tech's student-athletes, the student body, faculty and staff, alumni and friends, sports media, and the general community. The primary purpose of the Athletic Association is to direct each student-athlete toward growing as a total person, earning a meaningful degree, becoming a good citizen, and developing as an athlete. The basic obligation of all of these groups is twofold:

- (1) to develop and maintain a competitive athletic program that can be a source of pride, and
- (2) to allow members of these groups the opportunity to become involved in the program, whether as participants, contributors, or spectators.

### Athletic Association

The Georgia Tech Athletic program includes seventeen intercollegiate athletic teams (ten men's and seven women's). During the 1988-89 school year, 369 student-athletes will compete in these sports:

Men's Teams	Head Coaches	Number of Participants
Baseball	Jim Morris	30
Basketball	Bobby Cremins	11
Cross Country	Steve Keith	14
Football	Bobby Ross	131
Golf	Puggy Blackmon	12
Indoor Track	Buddy Fowlkes	47
Swimming	Brad Lehman	27
Tennis	Jean Desdunes	6
Track	Buddy Fowlkes	47
Wrestling	Lowell Lange	22
Women's Teams	Head Coaches	Number of Participants
Basketball	Agnus Berenato	12
Cross Country	Steve Keith	6
Softball	Judy Sackfield/Butch Watkins	13
Indoor Track	Buddy Fowlkes	18
Tennis	Rick Davison	8
Track	Buddy Fowlkes	18
Volleyball	Judy Sackfield	12

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.

Group	Number of Participants
Band	140
Pep Band	45
Reckettes	29
Cheerleaders	30
Solid Gold	47
Student Trainers	10
Student Managers	14

Source: Office of the Director, Athletic Association

### Georgia Tech Foundation

The Georgia Tech Foundation was chartered in 1932 to "promote in various ways the cause of higher education in the state of Georgia; to receive funds for the support and enhancement of the Georgia Institute of Technology; and to aid the Georgia Institute of Technology in its development as a leading educational institution." It is a nonprofit corporation that 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-exemptorganization.

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

The office of the Foundation is located in the new William C. Wardlaw Center on North Avenue.

The fund balance of the Foundation as of 30 June 1988 was

approximately \$98 million. The Foundation supports:

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

#### **Elected Officers**

John E. Alderhold

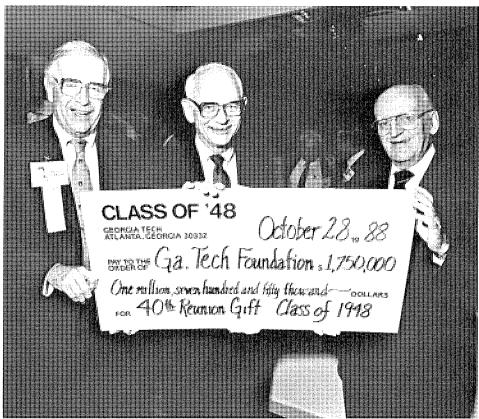
President

J. Thomas Gresham *Vice President* 

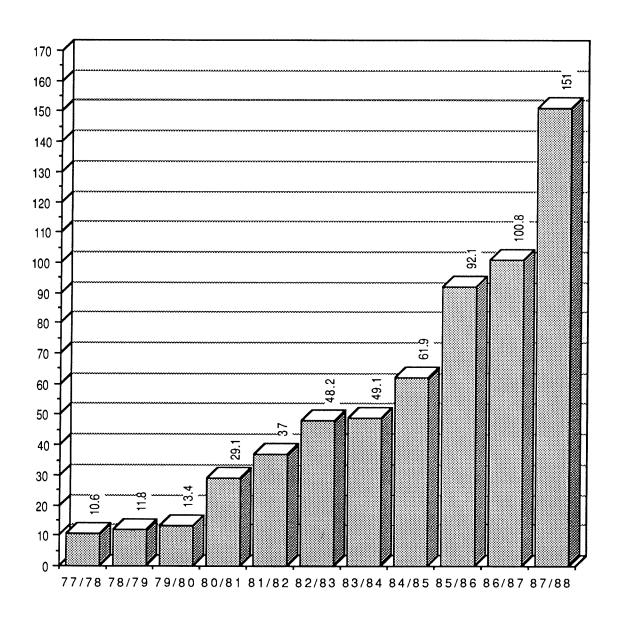
Robert H. Ferst *Treasurer* 

John H. Weitnauer, Jr. Assistant Treasurer

Source: Office of the Vice-President, Communications and Development



#### Market Value of Endowment, 1977/78 to 1987/88 (in millions of dollars)



### Support by Purpose; Sources of Support

#### MAJOR SUPPORT BY DONOR PURPOSE, 1983-84 TO 1987-88 (IN TOTAL DOLLARS)

DONOR PURPOSE	1983-84	1984-85	1985-86	1986-87	1987-88
Unrestricted	\$2,602,891	\$4,267,274	\$3,340,999	\$4,539,619	\$5,045,750
Institute Divisions	2,629,202	3,032,288	4,320,744	6,189,213	5,828,798
Faculty and Staff Comp.	435,732	782,883	300,837	602,396	696,326
Research	285,485	435,852	383,412	853,842	1,163,213
Student Financial Aid	913,865	1,018,789	838,817	569,969	667,530
Other Restricted Purposes	1,814,349	1,258,599	2,290,988	1,654,541	2,029,388
Total for Current Operations	\$8,701,524	\$10,795,685	\$11,475,797	\$14,409,580	\$15,431,005
Property, Buildings, and Equipment	\$6,103,844	\$9,629,614	\$11,313,253	\$4,415,505	\$3,760,066
Endowment and Similar Funds Unrestricted	d 117,323	1,352,311	2,690,302	2,529,000	39,942,900
Endowment and Similar Funds Restricted	1,057,033	2,498,543	4,150,410	2,847,056	2,827,016
Loan Funds	350	1,280	1,460	102,784	1,000,500
Total for Capital Purposes	\$7,969,677	\$13,481,748	\$18,155,425	\$9,894,345	\$47,530,482
Grand Total Current Operations and Capital	\$16,671,191	\$24,277,433	\$29,631,222	\$24,303,925	\$62,961,487

#### MAJOR SOURCES OF SUPPORT 1983-84 TO 1987-88 (IN TOTAL DOLLARS)

	1983-84	1984-85	1985-86	1986-87	1987-88
Alumni	\$6,577,934	\$7,257,891	\$9,469,888	\$10,674,033	\$10,706,808
Nonalumni	578,952	2,508,887	1,629,945	1,399,532	1,781,685
Corporations	8,453,139	11,910,758	16,540,803	9,574,453	9,096,212
Foundations	588,154	2,151,390	1,106,558	2,212,381	40,923,074
Other	473,012	448,507	884,028	638,103	453,708
Total	\$16,671,191	\$24,277,433	\$29,631,222	\$24,298,502	\$62,961,487

Source: Office of the Vice-President, Communications and Development

#### Officers

#### Georgia Tech Foundation Officers, 1988-89

John E. Aderhold President President, Rayloc Division, Genuine Parts Co. President, Callaway Foundation, Inc. J. Thomas Gresham Vice-President Vice-President for Development, Georgia Tech Vice-President Cecil R. Phillips Robert H. Ferst Treasurer Consultant

Assistant Treasurer Retired, Chairman and CEO Richway John H. Weitnauer, Jr.

Patrick J. McKenna Secretary Georgia Tech Foundation

Accounting and Administration, Georgia Tech Mary E. Stoffregen Director, Accounting

#### Georgia Tech National Advisory Board, 1988-89 Roster

President, Proctor & Gamble Cellulose Robert E. Cannon Chairman President, Milliken and Company Thomas J. Malone Vice-Chairman

> VP & General Manager, Chemicals & Metals Department, Immediate Past Chairman

> > Dow Chemical USA

Acting Vice-President for Communications and Cecil R. Phillips Acting Secretary

Development, Georgia Tech

#### Alexander-Tharpe Fund, Inc. Roster

President, Georgia Tech John Patrick Crecine President Chairman of the Board and CEO, The Patton Corporation E. Earl Patton, Jr. Vice-President Jack Thompson VP & Executive Director VP and Executive Director, Alexander-Tharpe Fund, Inc. Vice-President for Development, Georgia Tech Cecil Phillips Secretary Alexander-Tharpe Fund, Inc. Treasurer James E. Murphy III Homer Rice Athletic Director Executive Assistant to the President and

Director of Athletics, Georgia Tech

Alston and Bird Attorney

Alexander-Tharpe Fund, Inc. Susan Phinney Director

#### Georgia Tech Alumni Association Board of Trustees, Officers FY 89

President, Puritan Churchill Chemical Company Bobby Joe Anderson President President, Lawton M. Nease and Associates, Inc. Lawton M. Nease III Past President Oliver H. Sale, Jr. President-Elect/Treasurer Chairman of the Board, Fesco Retec, Inc. Vice-President, Southern Engineering Company Vice-President, Activities Shirley Mewborn Vice-President. Partner, King & Spalding John C. Staton, Jr.

Communications

H. Hammond Stith, Jr. Vice-President, Roll Call President, Stith Equipment Company VP & Executive Director, Georgia Tech Alumni Assoc. John B. Carter, Jr. Vice-President Cecil Phillips

Acting Vice-President, Communications and Development, Vice-President for

Development Georgia Tech

Source: Office of the Vice-President, Communications and Development

Donald S. Pirkle

Arthur Howell, Jr.

#### **Alumni Association**

The Georgia Tech Alumni Association was chartered in June 1908. The Association is a not-for-profit organization whose policies, goals, and objectives are guided by a Board of Trustees consisting of thirty-six elected alumni members. The mission of the association as stated in its charter is to:

- (1) promote active alumni participation for Georgia Tech through services to the alumni and keeping them informed of events of interest;
- (2) promote alumni volunteer support for Georgia Tech through the Roll Call, special projects, capital campaigns, and other fund raising activities;
- (3) promote the academic and research achievements of the Institute;
- (4) act as liaison between the alumni and the administration of the Institute; and
- (5) manage the resources of the Association in such a way as to achieve this mission in the most cost effective manner

The Alumni Association publishes the Georgia Tech Alumni Magazine and Tech Topics, the alumni newspaper; organizes and

supervises alumni clubs throughout the United States and in international locations; and designs and presents alumni programs, such as homecoming events, reunions, workshops, and seminars. Young alumni are encouraged to participate in the affairs of the Association and the Institute through campus programs, senior orientation, and the

#### **Alumni Association Officers**

Bobby Joe Anderson

President

Lawton M. Nease III

Past President

Oliver H. Sale, Jr.

President Elect/

Treasurer

Shirley Mewborn
Vice-President
Activities

John C. Staton, Jr.
Vice-President
Communications

H. Hammond Stith, Jr.

Vice-President

Roll Call

John B. Carter, Jr. Vice-President

Cecil R. Phillips

Acting Vice-President
for Communications

career advisory service for students. The Association maintains the official alumni (now over 77,000) statistical records and files. Monetary support is provided by alumni and friends through their participation in the Association's Annual Roll Call.

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

In addition to the Alumni Placement Bulletin, the Annual Career Conference and the Career Section in Tech Topics have aided alumni who are searching for employment. The Alumni Placement office also provides seminars on topics related to employment.

The offices of the Alumni Association are located in the L.W. "Chip" Robert, Jr. Alumni/Faculty House on North Avenue. The telephone number of the Association is 404/894-2391.

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

#### **EMPLOYERS OF TWENTY-FIVE OR MORE GEORGIA TECH ALUMNI**

Employer	Number Emp	loyed	Frito-Lay Inc.	33	RCA	43 34
ATOT Dall I also		71	General Dynamics	161	Raytheon Co.	48
AT&T Bell Labs	•	71	General Electric Co.	390	Reynolds Metals Co. Robins Air Force Base	26
AT&T Technolog		71	General Motors	122	Rockwell International	140
Alabama Power C	.0.	30	Georgia Power Co.	540	Rockwell International	140
Alcoa		75	Georgia State Univ.	42	Cahlumhangan	15
Allied-Signal Inc.		44		710	Schlumberger	45
American Cyanan	nid Co.	25	Georgia Tech	133	Scientific Atlanta	97
American T&T		171	Georgia Tech Research Inst.		Sears Roebuck & Co.	26
American Airline		25	Goodyear T&R Co.	30	Shaw Industries Inc.	48
Army Corps of E		98	II	00	Shell Oil Co.	69
Arthur Andersen		105	Harris Corp.	98	Simons Eastern Co.	44
Atlanta Gas Light	t Co.	59	Hercules Inc.	84	Southern Bell T&T Co.	242
			Hewlett-Packard Co.	106	South Central Bell	31
Babcock & Wilco	X	52	Honeywell Inc.	68	Southern Company Services	113
Bell South Corp.		30	Hughes Aircraft Co.	63	Southern Railway	32
Bell Telephone La		33	m) ( 0	<b>610</b>	Southern Tech.	33
Bellsouth Service		62	IBM Corp.	619	Southwire Co.	52
Bethlehem Steel (	Corp.	26	International Paper Co.	31	Square D Co.	39
Boeing		86		2.5	State of Georgia	170
Buckeye Cellulos	e	37	Jordan Jones	26		
Burlington Indust	ries	48			TRW Inc.	73
			Kimberly Clark Corp.	98	Tennessee Eastman Co.	75
C&S National Ba	nk	52	Kurt Salmon Assoc.	31	Texaco Inc.	56
Celanese Corp.		45			Texas Instruments	72
Chevron USA Inc		37	LTV Aerospace Corp.	26	Trane Co.	27
City of Atlanta		31	Law Engineering Testing	31	Trust Company Bank	60
Coca-Cola Co.		117	Lockheed Aircraft	61	TVA	122
Coca-Cola USA		28	Lockheed Corp.	38		
Combustion Engi	neering	39	Lockheed Georgia Co.	540	U.S. Air Force	614
Conoco Inc.	J	29	Lockheed Missiles	29	U.S. Army	393
Control Data Corp	o <b>.</b>	34	Lockwood Greene Engineering	35	U.S. Government	101
Corning Glass Wo		30			U.S. Marine Corps	58
J			Management Science Amer.	35	U.S. Navy	424
Delta Airlines		224	Martin Marietta Corp.	165	U.S. Postal Service	39
Department of De	fense	49	McDonnell Douglas	159	U.S. Steel	27
Dept. Transportati		43	Mead Corp.	25	Union Camp Corp.	67
Digital Equipmen		43	Medical College of Georgia	39	Union Carbide Corp.	101
Douglas Aircraft	I ·	32	Merrill Lynch PFS	64	UNISYS	54
Dow Chemical		80	Milliken & Co.	119	United Technologies	28
Duke Power Co.		97	Mobil Oil Corp.	57	University of Alabama	36
DuPont Co.		34	Monsanto Co.	98	University of California	34
			Motorola Inc.	95	University of Georgia	25
E.I. DuPont		485			University of Tennessee	33
E. Systems Inc.		43	NASA	192	·	
Eastern Airlines		76	NCR Corp.	54	Warner Robins A.L.C.	50
Ebasco Services In	nc.	31	Northern Telecom.	38	West Point Pepperell	40
Electromagnetic S		30	Northrop Corp.	39	Western Electric Co.	89
Emory University		32	· -		Westinghouse Electric	189
Environmental Pro			Oglethorpe Power Co.	27	Xerox Corp.	28
Ethyl Corp.		27	Owens Corning Fiberglass	34	F·	_
Exxon Co. USA		32	Oxford Industries	25	Source: Office of the Director, Alu	ımni
Exxon Corp.		66			Source. Office of the Director, Alt	птип
o oorp.		00	Pan American World Airways	28		
FAA		43	Phillips Petroleum Co.	28		
Federal Reserve B	lank	32	Pratt & Whitney Aircraft	97		
First National Ban		26	Printpack Inc.	28		
Florida Power & I		219	Procter & Gamble	227		
Ford Motor Co.		68				
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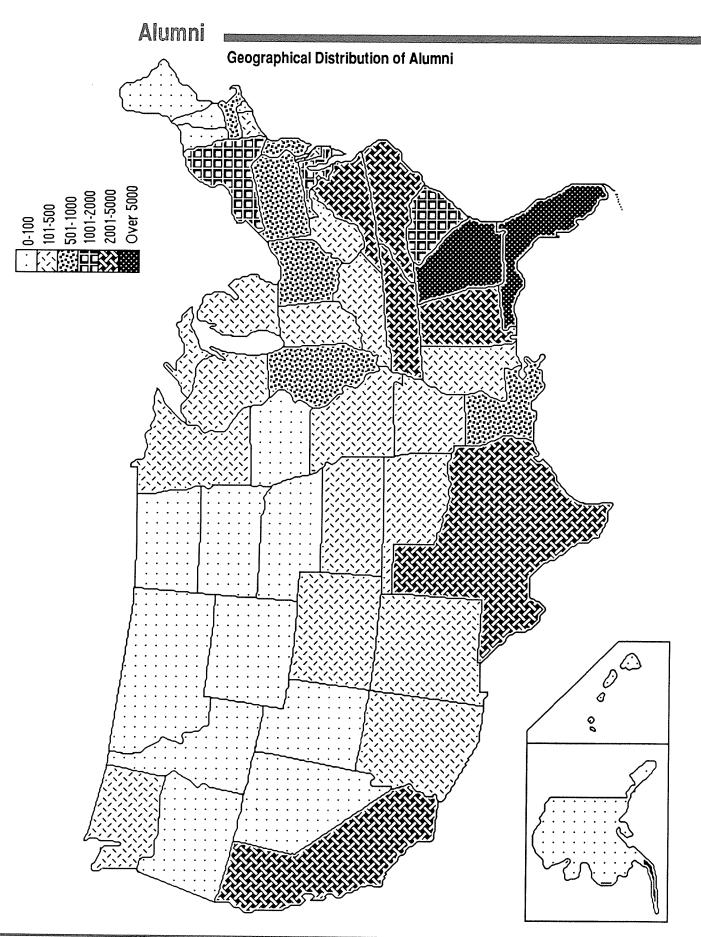
### **ALUMNI CLUBS**

CLUB NAME	AREA	CLUB PRESIDENT	ADDRESS of Club President
Albany	GA	Doug Wren	P.O. Box 8/Albany GA 31703
Alexander City*	AL	Scott Howell*	Russell Corporation/Alexander City AL 35010
Athens	GA	Shep Hammack	Westinghouse Electric Co./Newton Bridge Road/Athens GA 30613
Atlanta-Buckhead	GA	Rob Binion	LaVista Associates/3201 Peachtree Corners Cr./Norcross GA 30092
Atlanta-Cobb County	GA	Arnaldo Ruiz	Phone: 404/765-6118
Atlanta-DeKalb	GA	Richard Jackson	2609 Salem Crossing/Tucker GA 30084
Atlanta-Gwinnett	GA	Al Culbreth	Mutual of New York/2463 Heritage Village, Suite #106/Snellville GA
			30278
Atlanta-North Fulton	GA	Ben Lilly	Phone: 404/955-2342
Atlanta-South Metro	GA	Alan Lowe	Phone: 404/296-5282
Atlanta-West Metro	GA	Bill Coats	Phone: 404/873-9903
Augusta	GA	Frank Dennis	Augusta Iron and Steel/P.O. Box 1628/Augusta GA 30913
Austin	TX	Tom Haddon	Phone: 512/448-5555
Baton Rouge	LA	Larry Dallam	Dunhill of Baton Rouge/5723 Superior Drive/Baton Rouge LA 70816
Birmingham	AL	Chris Mitchell	Phone: 205/252-9321
Boston	MA	Pete McCarthy	117 Hillsdale Rd./Somerville MA 02144
Cartersville*	GA	Charlie Langford*	Phone: 404/382-6000
Central Florida (Orlando)	FL	John Hammond	Hammond Electric/P.O. Box 3671/Orlando FL 32802
Charleston*	SC	Henry Fair*	Phone: 803-722-2642
Charlotte	NC	Elizabeth Rhines	Sun Health/P.O. Box 668800/Charlotte NC 28266-8800
Chattanooga	TN	Everett Kidder	Phone: 615/751-2827
Cincinnati	OH	Roxanne Drago	Phone: 513/659-5842
Columbus	GA	Phil Williams	Phone: 404/576-2022
Dayton	OH	Dennis Hall	Phone: 513/257-7915
Ft. Walton Beach*	FL	Bill Jolley*	Phone: 904/651-8130
Gainesville	GA	Scott McGarity	Phone: 404/536-9852
Greenville/Spartanburg	SC	Bob Ritter	Phone: 803/242-6345
Griffin	GA	Jimmy Roddy	Phone: 404/227-5581
Houston	TX	Don MacNeil	Rahscher, Pierce, Refnes/550 Westlake Park Blvd., Suite #100/
			Houston TX 77077
Jacksonville	FL	Mayo Mills	Merrill Lynch/P.O. Box 1918/Jacksonville FL 32202
Kingsport	TN	Frank de Nobriga	4413 Chickasaw Road/Kingsport TN 37664
Macon	GA	Steve Skalko	P.O. Box 7821/Macon GA
Memphis	TN	Ceylon Blackwell	Phone: 901/683-2100
Miami	FL	Greg Cope	Phone: 305-598-6000
Milledgeville	GA	John Baum	P.O. Box 654/Milledgeville GA 31061
Montgomery	AL	Paul Anderson	Phone: 205/263-1478
Newnan*	GA	Mitch Ginn*	Phone: 404/872-3110
New York	NJ	Erich Sokolower	Repex & Company, Inc./550 Durie Avenue/Closter NJ 07624
North Texas (Dallas/FW)	TX	Mac Jordan	Phone: 214/869-2511

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Northeast Ohio	ОН	Bruce Noggle	The Cedarwood Company/1765 Merriman Road/Akron OH 44313
Northern California	CA	John Sessoms	3915 Vine Street/Pleasanton CA 94566
Northwest Georgia	GA	Marv Lewis	Allied Fibers/2100 Fiber Park Drive/Dalton GA 30722
Peachtree City*	GA	Gene Murphey*	GM Associates, Inc./300 Tivoli Gardens Rd., Suite #100/
			Peachtree City GA
Phoenix	ΑZ	Betsy Jones	Phone: 602/961-2881
Puerto Rico	PR	Freddie Fernandez	Dalsan/Calle America #4/Hato Rey PR 00917
Raleigh/Durham	NC	Ed McBride	Phone: 919/733-6677
Richmond	VA	Jim Piette	Rosemount Corp./5102 W. Village Green, Suite #103/
			Midlothian VA 23113
Rome	GA	Mickey Gunter	Georgia Power/800 Broad Street/Rome GA 30161
Savannah	GA	Tom Hussey	Phone: 912/355-6608
Southeast Georgia (Brunswick)	GA	Fleming Martin	The Gilbert Law Firm, Phone: 912/265-6700
Southern California	CA	John Morris	Phone: 714/240-1497
Space Coast (Cape Canaveral)	FL	Bill McCaslin	Harris Corporation, Phone: 407/984-6326
Sun Coast (Tampa/St. Pete)	FL	Gregg Griffin	Phone: 813/228-4111
Toccoa*	GA	Robert Worley*	Phone: 404/886-7421
Vidalia	GA	Clay Chester	Phone: 912/526-3988
Warner Robins/Houston Co.	GA	Jim Elliott	Phone: 912/929-1120
Washington DC	VA	Jerry Swart	Phone: 703/848-0101
West Georgia (Carrollton)	GA	Dan McBrayer	Phone: 404/834-8313
West Point (LaGrange)	GA	Richard Freeman	Phone: 404/882-1411
Wilmington	DE	Gus Georgiou	DuPont Company/Wilmington DE 19898
Winston-Salem*	NC	Tom Pierce*	R.J. Reynolds/Phone: 919/741-3619

<sup>\*</sup>Informal groups and group contact

Source: Office of the Director, Alumni Association



#### GEOGRAPHICAL DISTRIBUTION OF ALUMNI\* (As of July 1988)

STATE	NUMBER	STATE	NUMBER	STATE	NUMBER
Alabama	2,206	Maine	47	Pennsylvania	804
Alaska	42	Maryland	1,190	Rhode Island	43
Arizona	316	Massachusetts	599	South Carolina	1,894
Arkansas	174	Michigan	352	South Dakota	9
California	2,665	Minnesota	130	Tennessee	2,073
Colorado	425	Mississippi	393	Texas	2,700
Connecticut	475	Missouri	391	Utah	47
Delaware	223	Montana	12	Vermont	33
District of Columbia	143	Nebraska	48	Virginia	2,176
Florida	5,306	Nevada	60	Washington	325
Georgia	26,257	New Hampshire	88	West Virginia	114
Hawaii	84	New Jersey	932	Wisconsin	116
Idaho	35	New Mexico	143	Wyoming	24
Illinois	572	New York	1,195	Puerto Rico	273
Indiana	237	North Carolina	2,186	Foreign	1,352
Iowa	54	North Dakota	10	Unknown	5
Kansas	137	Ohio	860	J	J
Kentucky	393	Oklahoma	182		
Louisiana	735	Oregon	74		

#### NUMBERS OF LIVING ALUMNI BY CLASS YEAR\*

YEAR	NUMBER OF ALUMNI						
1007	4	1005					
1907	Ĭ	1927	98	1947	512	1967	1,063
1908	0	1928	120	1948	661	1968	1,270
1909	1	1929	125	1949	921	1969	1,348
1910	1	1930	145	1950	1,215	1970	1,737
1911	0	1931	163	1951	1,000	1971	1,555
1912	4	1932	224	1952	787	1972	1,531
1913	7	1933	235	1953	692	1972	
1914	5	1934	242	1954			1,572
1915	7	1935			624	1974	1,609
1915	/		199	1955	637	1975	1,416
	4	1936	186	1956	727	1976	1,513
1917	10	1937	179	1957	900	1977	1,533
1918	6	1938	255	1958	977	1978	1,627
1919	8	1939	275	1959	1,030	1979	1,847
1920	15	1940	293	1960	1,058	1980	2,014
1921	28	1941	339	1961	928	1981	2,237
1922	32	1942	372	1962	983	1982	
1923	57	1943	469	1963	867		2,260
1924	62	1944				1983	2,194
1925	78		173	1964	1,000	1984	2,202
		1945	203	1965	1,018	1985	2,291
1926	104	1946	256	1966	955	1986	2,243
						1987	2,238

<sup>\*</sup>This figure includes only those alumni whose location is known.

Source: Office of the Director, Alumni Association

## A SELECTED LIST OF COMPANIES WHOSE CHIEF EXECUTIVE OFFICERS OR VICE-PRESIDENTS ARE GEORGIA TECH ALUMNI

AT&T Communications AT&T Technologies ARA Services Inc. ALCOA

Atlanta Gas Light Company

Barnett Bank
Bellsouth Systems Tech.
Beers Construction Company
Beers Inc.
B.F. Goodrich Company
Blue Cross/Blue Shield
Blue Bird Body Company
Boeing
Booz-Allen-Hamilton

Brinks Inc.
Brown & Root Inc.
Burnham Van Lines

C&S National Bank
Cable News Network
California Research Inst.
Carriage House Furniture
Chase Manhattan Bank
Coca-Cola Enterprise
Coca-Cola USA
Continental Airlines
Control Data Corporation

Dalton Junior College Dan River Mills Dean Witter Reynolds Delta Airlines Dow Chemical

E.F. Hutton & Company Inc.
E.F. Hutton P.R. Inc.
E.I. DuPont
E-Tech Inc.
Eastern Airlines
Eastman Kodak Company
Emery Worldwide
Equifax Inc.

First National Holding Corporation First Union National Bank Florida Power and Light Company Ford Motor Company

GTE Sylvania Inc. Gainesville College General Motors

Franklin Mint

Georgia Kaolin Company Georgia Pacific Corporation Georgia Power Company Gold Kist Inc. Golden Flake Inc. Goodwill Industries

Hanes Hosiery Inc.
Harris Corporation
Hayes Microcomputer
Healthdyne Inc.
Heery International Inc.
Hercules Inc.
Holiday Inns Inc.
Honeywell Inc.

Hughes Aircraft Company

Great Dane Trailers

ITT Rayonier Inc.
Ivan Allen Company

John Portman & Assoc. Johnston and Murphy Jossey-Bass Inc.

Kidder Peabody & Company Kimberly Clark Corporation Korn/Ferry International Krispy Kreme Donuts

Lamar MFG Company Litton Industries Lockheed Corporation Lockheed Georgia Corporation

MGMNT Science America Maier and Berkele Inc. Mark Inns of America Martin Marietta Corporation McDonnell Douglas Memphis State University Merrill Lynch PFS Mobil Oil Corporation Monsanto Company Motorola Inc.

NCNB Corporation
New York Medical College
Nissan Motor Manufacturing Company
Northern Telecommunications

Pacific Aviation
PaineWebber Incorporated

Pennsylvania House
Pepsi-Cola Company
Phillips Petroleum Company
Playtex Incorporated
Pratt and Whitney Aircraft
Printpack Incorporated
Prudential Bache Securities

Rayloc Division, General Parts Robinson Humphrey Rockwell International Russell Corporation

Scientific-Atlanta
Sears Roebuck & Company
Shearson/American Express
Sony Corporation of America
Southern Bell T&T Company
Southern Company
Southern Corporation
Southwire Company

TVA
Technology Park-Atlanta
Timex Corporation
Toms Foods
Touche Ross & Company
Trammell Crow Company
Travelers Insurance Company
Trust Company Bank
Tupperware
Turner Broadcasting

U.S. Steel
U.S. Sugar Corporation
Union Carbide Corporation
Union Pacific Railroad
United Airlines
United Parcel Service
United Technologies
University of Alabama

WCNN Radio
W.D. Alexander Company
Waffle House Inc.
Wake Forest University
Wal-Mart Stores
West Point Pepperell
Western Electric Company
Westinghouse Electric

Source: Office of the Director, Alumni

Georgia Tech Education Extension (GTEE) represents the education extension arm of Georgia Tech. It is responsible for all noncredit, as well as off-campus credit, academic programs.

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

Diverse programming includes courses in:

- Expert Systems
- Management
- Human Resources/ Employee
  Assistance
- Computer Science Applications
- Environmental Health and Safety
  - Electronics
    - Energy
  - New Technology
  - Artificial Intelligence
  - Economic Development
  - Business and Economics
    - Applied Science
      - Engineering
  - •Industrial Applications
    - •City Planning
  - Radiation Protection
    - Languages

Education Extension programs make the superior resources of Georgia Tech's many different academic and research units available from one source. The College of Architecture, School of Civil Engineering, School of Electric

Engineering, School of Industrial and Systems Engineering, and the Material Handling Research Center are just a few of the units that provide the experts and tools that make these programs innovative and timely.

Further state-of-the-art expertise is supplied by the Georgia Tech Research Institute's (GTRI) laboratories and research facilities. which sponsor many of the programs offered annually through Education The Environment. Extension. Health, and Safety Division of GTRI's Economic Development Laboratory, for example, sponsors courses. conferences. symposiums for environmental, health, and safety professionals and the private sector. Additionally, Education Extension is transmitted by communication satellite to all the Association for Media Based Continuing Engineering Education (AMCEE) noncredit offerings throughout the United States.

In addition to programs administered on the Georgia Tech campus, programs were conducted at sites throughout the country this past year. International programs were conducted in Canada, Paris, China, Portugal, and Costa Rica. Courses and programs are being delivered by video tape, low power microwave transmission, and through direct satellite broadcast to locations throughout the United States.

GTEE has set in motion a plan assigning a representative to interact with each Georgia Field office of the Industrial Extension Division of the Economic Development Laboratory, Georgia

## Education Extension

Tech Research Institute. The objective is to ensure that Georgia Tech is responsive to the continuing education needs of Georgia business, industry, and government organizations.

Education Extension's area of activities are continuing to expand to meet public and private needs and include:

Microcomputer Training Facility. Education Extension offers personal computer training for professionals at its off-campus Microcomputer Training Facility. The facility is located at the Pierremont Plaza Hotel and Conference Center, just two blocks east of campus. Highly technical and specialty computer applications are taught at the facility, as well as training in computer awareness and a variety of popular software. The facility features classroom work stations equipped with IBM PS/2 Model 30s, IBM Proprinter IIs, and a video-projection system to show the instructor's screen.

Language Institute. The Language Institute provides services to both foreign students and the business community. The Institute's Intensive English program offers instruction in English as a second language and facilitates the assimilation of foreign students into campus life in the United States through extensive orientation and assistance in the admissions process to colleges and universities. More than 500 students are enrolled annually

## **Education Extension**

from 44 countries with offerings on six different levels.

Courses providing instruction in foreign languages such as Mandarin Chinese and Arabic, assisting business professionals with their international communication skills, are also offered.

Institute for Planning/ Operational primary Analysis. The responsibility of the Georgia Tech Institute of Planning/Operational Analysis (GTIPOA) is to develop related military courses for industry and government both on and off campus. The Institute also establishes add-on courses to enhance degree programs for students such as military officers enrolled in various fields of engineering and operations research, and works with ROTC units to heighten awareness of DoD research and educational activities on campus.

Video-Based Instruction. For some organizations, video-based

instruction is the most convenient and cost-effective approach to providing professional development programs for their employees. Education Extension's Video-Based Instruction Section (VBIS) uses its production facilities to tape "live" workshops as they occur and to develop programs especially for videotape. Credit and noncredit options are available by videotape as well as courses transmitted via satellite using Georgia Tech's satellite uplink and downlink facility.

Graduate-level courses and degree programs in several engineering disciplines at Georgia Tech can be delivered by videotape to company sites. Students complete the courses simultaneously with their oncampus counterparts. Master's degree programs are available in Aerospace Engineering, Electrical Engineering, Health Physics, and Mechanical Engineering.

On-Site Programs. Education Extension is always ready to work with companies or individuals to meet the special needs of their profession or organization: if a company requires an in-house program, one can be specifically designed for them and conducted either on Tech's campus, at the company's location, via videotape, or via satellite.

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

Source: Office of the Associate Vice-President and Director, Education Extension.

		PROGRAM	INFORMATION*				
Number of:	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88	
Programs	221	221	296	516	777	754	
Participants	6,039	6,976	8,103	11,347	13,662	16,167	
States Represented**	48	50	51	53	<i>5</i> 3	53	
International Participants	580	392	652	511	644	531	
Georgia Residents	3,090	3,331	3,454	5,494	6,634	7,667	
Georgia Counties Represented	98	119	108	119	137	141	
Institutional Continuing Education Units (CEU's)	25,627	19,983	26,194	26,194	29,645	33,521	

<sup>\*</sup> This table represents all public service activity officially reported to Education Extension Services, in addition to programs sponsored by the department.

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

Industrial Education, part of the Georgia Tech Research Institute (GTRI), provides on-site human resource development and technical training activities to Georgia's industrial community. Industrial Education is administered by GTRI's Economic Development Laboratory (see page 129). This group offers the resources and technical expertise at

Tech to individual firms when solutions to problems are needed. Seminars, workshops, and conferences have been provided for textile, food processing, automobile, and other industries.

For over sixty-six years, this group has helped industrial firms through training and educational services. Some recent in-plant

## Industrial Education

training activities have included workshops on supervisory skill development. Other workshops have encompassed the topics of safety and health, human relations, labor relations, management awareness, and instructor training.

Source: Office of the Director, Georgia Tech Research Institute

Adr			In-Plant Class by Industrial	the first the second of the second of the second of		
	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88
Number of Classes	160	118	124	147	124	196
Number of Students Enrolled	4,223	2,430	2,293	2,212	2,260	3,135
Number of Participating Companies	69	46	54	52	53	58
Total Pupil Hours	40,137	23,169	22,893	27,436	28,024	36,867

#### CETL

The Center for the Enhancement of Teaching and Learning (CETL) was established to assist faculty members and administrators in their efforts to offer high quality education to Georgia Tech students. Designed to function as a catalyst to stimulate thought and activities aimed at the enhancement of teaching and learning on the campus, the center provides facilities faculty, students. administrators to seek and share information. Current and projected activities of the center include:

- Designing, administering, and evaluating the Institute's system for development of teaching proficiency, including organization of workshops, new faculty orientation programs, and training programs for graduate assistants;
- Providing consultation to faculty members or department heads in their efforts to support, develop, or assess teaching proficiency;
- Providing, or arranging for, research consultation to departments or individuals engaged in research relating to teaching;

- Taping classes for professors, making observations, and conducting dialogues with students at the professor's request, with critiquing as an option;
- Maintaining a special collection of books, journals, and periodicals at CETL and in Tech's library;
- Publishing a newsletter to apprise faculty of CETL's activities and to share ideas about teaching;
- Developing, in conjunction with the Office of Interdisciplinary Programs, a series of tapes, "Good Teaching at Georgia Tech," of exemplary Tech professors discussing and demonstrating various aspects of teaching: planning and preparation, student interactions, presentations, laboratory instruction;
- Coordinating, in conjunction with the Language Institute, programs for international professors and graduate students to help them improve their English communication skills;

- Periodically surveying (in collaboration with the Office of Campus Planning) facilities used for course presentation and support of teaching activities and publishing and distributing booklets documenting the existing facilities;
- Providing information to faculty on availability of facilities and services for support of teaching activities;
- Coordinating and evaluating the Institute's procedure for measuring student opinions of instructional quality;
- Conducting studies designed to provide information relating to instructional quality and its improvement, and distributing reports to those persons concerned with specific topics;
- Sponsoring the faculty Toastmasters ("Techmasters") chapter.

Source: The Center for the Enhancement of Teaching and Learning

Information technology has by now become an integral and crucial part of virtually all administrative, instructional, and research units of the Georgia Institute of Technology. These widely dispersed, information processing activities are coordinated and given policy guidance through an Administrative Advisory Committee on Information Technology.

The following two administrative units are directly engaged in providing the Institute with information technology facilities and services:

## OFFICE OF COMPUTING SERVICES (OCS)

Georgia Tech has available a wide range of computer facilities including nine mainframe computers (in addition to those supported by GTRI), more than forty minicomputers, and more than 2,500 personal computers with communication capabilities. Α number of the larger facilities are managed by the Office of Computing Services (OCS), which offers facilities management support to the campus as a whole, and which, in addition, is responsible for the operation of a large central computing facility. The computer center currently houses a Control Data Corporation Cyber 990 computer with vector capabilities and high

speed (32 MIP) scalar capabilities, two CDC 855 systems, two CDC 830 systems, and an IBM 4381 connected to a large array of disk drives, magnetic tape units, data communications devices, and printing devices, including Xerox 8790 and 9700 laser printers. Additional computing capacity at the central site is provided by equipment from Sequent, Sun Microsystems, and Pyramid.

In addition to the central facilities described above, there are numerous satellite computer activities devoted to special campus projects; these activities are conducted through a wide variety of dedicated machines, including IBM equipment in the 4300 and 9370 series. Digital Equipment Corporation VAX's, and equipment from other major vendors such as Burroughs, Data General, Harris, Hewlett-Packard, Perkin-Elmer, Xerox, and others. A number of these satellite facilities are managed by OCS, including a laboratory of Xerox 1108's and 8014's used to support advanced instruction in artificial intelligence. OCS also supports a number of microcomputer and workstation clusters. clusters contain Apple MacIIs, IBM PS/2s, Sun 3/60s, and MacIIs running A/UX.

The various computer mainframes, minicomputers, and

# Information Technology

microcomputers dispersed throughout the Georgia Tech campus are linked by GTNET, the Institute's advanced data communications network. In GTNET, a fiber-optic cable spanning the campus's 128 buildings supports more than 2,380 network ports interconnecting a score of computers and includes such technologies as:

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

Through GTNET, faculty, staff, and students have the opportunity to access worldwide information databases through the services provided by BITNET, CSNET, and ARPANET. In addition, a highspeed data link between Georgia Tech and the University of Georgia provides

# Information Technology

connection to the computing resources of USCN, the University System Computer Network.

Recent multi-million dollar grants from IBM, Control Data, and other major corporations have made it possible for Tech to proceed with the development of two world class centers for research in the areas of computer-assisted research and development. One is a center for research in the areas of computer-assisted engineering, design, and manufacturing (CAE/CAD/CAM); the other is a center for research and development projects to develop software and courseware for

engineering education and to explore and extend the educational uses of state-of-the-art developments in expert systems, decision making, and distributed intelligence.

## INFORMATION SYSTEMS AND APPLICATIONS (ISA)

The purpose of Information Systems and Applications is to support administration users in providing well-defined, highly responsive information systems. In carrying out this mission, ISA has four broad objectives:

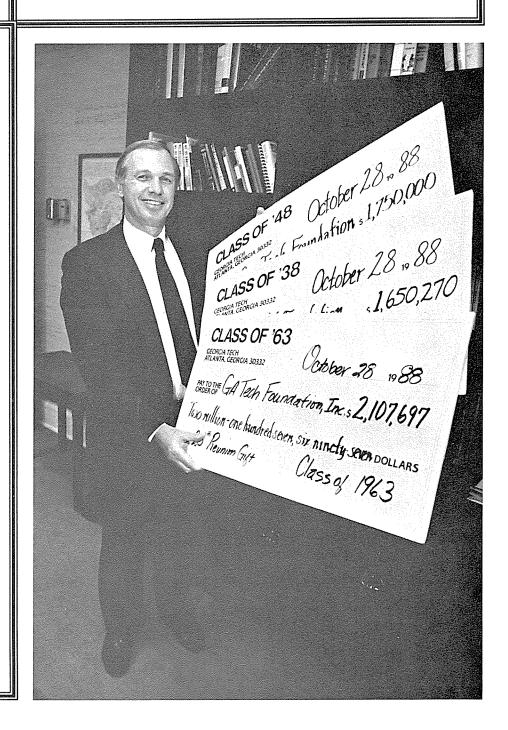
- to define the future software environment under which Georgia Tech will operate
- to provide information systems that meet current and future needs through commercial software or ISA-developed programs
- to consolidate the existing systems into a unified institutional data base
- to evolve into an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

Source: Office of the Vice-President for Interdisciplinary Programs

### FINANCES

1988-89

FACT BOOK



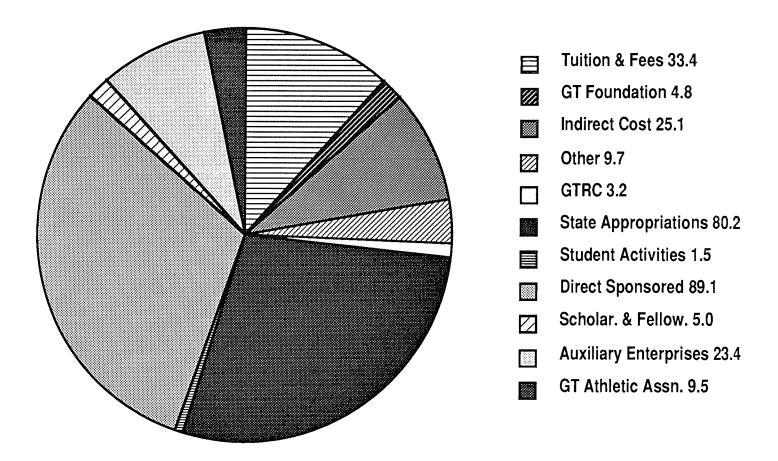
Revenues \_\_\_

FINANCIAL DATA—REVENUES: REVENUE BY SOURCE										
STUDENT TUITION & FEES	FY 1983-84	FY 1984-85	FY 1985-86	FY 1986-87	FY1987-88					
STODENT TOMONATILES					•					
Resident Instruction Eng Ext Division	\$19,859,392 1,599,587	\$22,300,507 1,895,489	\$25,329,590 3,066,656	\$28,430,159 3,510,774	\$29,483,982 3,953,656					
Total	\$21,458,979	\$24,195,996	\$28,396,246	\$31,940,933	\$33,437,638					
ENDOWMENT INCOME										
Resident Instruction Ga Tech Research Inst	\$521,000 —	\$195 <b>,</b> 015	\$37,252 —	\$47,000 —	\$161,500 —					
Unexp Plant Funds	868,246	1,344,222	849,604	646,369	1,998,893					
Total	\$1,389,246	\$1,539,237	\$886,856	\$693,369	\$2,160,393					
GIFTS & GRANTS										
Resident Instruction Eng Ext Division	\$197,116 69,325	\$232,669 85,685	\$166,982 85,042	\$97,876 —	\$129,513 —					
Ga Tech Research Inst	252.460		<u> </u>	92,889	115,014					
Unexp Plant Funds	353,469	1,920,450	58,956	1,197,255	394,266					
Total	\$619,910	\$2,238,804	\$310,980	\$1,388,020	\$638,793					
INDIRECT COST RECOVERIES										
Resident Instruction Ga Tech Research Inst	\$4,729,699 12,233,197	\$5,247,619 13,295,037	\$7,223,952 16,058,728	\$7,907,130 14,734,926	\$8,888,403 16,191,240					
Adv Tech Dev Center	13,050	35,549	18,765	16,444	3,344					
Eng Ext Division		- Marie Mari	<del></del>	28,882 1,754	6,919 18					
Center for Rehab Tech										
Total	\$16,975,946	\$18,578,205	\$23,301,445	\$22,689,136	\$25,089,924					
OTHER SOURCES										
Resident Instruction	\$686,901	\$619,294	\$675,632	\$686,126	\$923,391					
Eng Ext Division	1,247	23,675	4,753	465	4,930					
Ga Tech Research Inst	2,644,290	3,383,322	2,095,903	2,993,094	2,968,140					
Adv Tech Dev Center	17,096	1,441	4,023	6,513	11,519					
Center for Rehab Tech				1,931	6,758					
Unexp Plant Funds	1,286,352	3,642,175	1,978,217	2,726,609	2,895,560					
Total	\$4,635,886	\$7,669,907	\$4,758,528	\$6,414,738	\$6,810,298					
STATE APPROPRIATION										
Resident Instruction	\$45,898,963	\$52,631,229	\$57,057,829	\$61,943,256	\$64,914,003					
Eng Ext Division	628,382	681,898	930,260	537,115	594,115					
Ga Tech Research Inst	5,989,241	6,720,329	7,690,274	8,880,861 913,717	9,618,272					
Agricultural Research	487,705	569,269	747,086 874.054		954,078 1 188 850					
Adv Tech Dev Center	581,611	811,864	874,054 356,175	1,018,518 631,152	1,188,859 827,239					
Center for Rehab Tech	<u> </u>	500 000		377,763						
Unexp Plant Funds	650,000	500,000	654,415		2,135,000					
Total	\$54,235,902	\$61,914,589	\$68,310,093	\$74,302,382	\$80,231,566					

	Revenues						
OPOLICOPED OPERATIONS	FY 1983-84	FY 1984-85	FY 1985-86	FY 1986-87	FY1987-88		
SPONSORED OPERATIONS							
Resident Instruction	\$21,771,052	\$22,133,359	\$28,099,493	\$31,544,886	\$36,845,330		
Eng Ext Division	4,676	29,555	15,730	200,050	108,795		
Ga Tech Research Inst	36,544,998	35,342,783	36,772,843	44,356,245	52,123,445		
Adv Tech Dev Center Center for Rehab Tech	34,840	80,861	38,096 373	34,202 84,178	17,497 37,855		
Center for Renab 1 Ch			373	01,170	37,033		
Total	\$58,355,566	\$57,586,558	\$64,926,535	\$76,219,561	\$89,132,922		
SCHOLAR & FELLOW—RI	\$3,995,958	\$4,273,163	\$4,160,507	\$4,037,239	\$5,008,108		
AUXILIARY ENTERPRISES	\$14,898,559	\$17,538,743	\$19,482,985	\$22,929,471	\$23,359,823		
GA TECH ATHLETIC ASSN	\$6,508,000	\$7,843,968	\$9,154,662	\$9,831,973	\$9,469,610		
STUDENT ACTIVITIES	\$1,216,970	\$1,326,200	\$1,347,282	\$1,401,540	\$1,452,123		
GA TECH FOUND, INC	\$4,850,417	\$4,787,477	\$5,098,663	\$5,699,444	\$4,836,552		
GA TECH RESEARCH CORP	\$4,392,000	\$4,449,361	\$3,869,052	\$2,020,503	\$3,235,116		
TOTAL REVENUE							
Resident Instruction	\$97,660,081	\$107,632,855	\$122,751,237	\$134,693,672	\$146,354,230		
Ga Tech Research Inst	57,411,726	58,741,471	62,617,748	71,058,015	81,016,111		
Eng Ext Division	2,303,217	2,716,302	4,102,441	4,277,286	4,668,415		
Agricultural Research	487,705	569,269	747,086	913,717	954,078		
Adv Tech Dev Center	646,597	929,715	934,938	1,075,677	1,221,219		
Center for Rehab Tech			356,548	719,015	871,870		
Auxiliary Enterprises	14,898,559	17,538,743	19,482,985	22,929,471	23,359,823		
Ga Tech Athletic Assn	6,508,000	7,843,968	9,154,662	9,831,973	9,469,610		
Student Activities	1,216,970	1,326,200	1,347,282	1,401,540	1,452,123		
Ga Tech Found, Inc	4,850,417	4,787,477	5,098,663	5,699,444	4,836,552		
Ga Tech Research Corp	4,392,000	4,449,361	3,869,052	2,020,503	3,235,116		
Unexp Plant Funds	3,158,067	7,406,847	3,541,192	4,947,996	7,423,719		
TOTAL	\$193,533,339	\$213,942,208	\$234,003,834	\$259,568,309	\$284,862,866		

Source: Office of the Associate Vice-President for Business and Finance

# CONSOLIDATED REVENUE BY SOURCE Fiscal Year 1987-88: \$284.9 million



### **Expenditures**

EXPENDITURES BY BUDGETARY FUNCTION									
INSTRUCTION	FY 1983-84	FY 1984-85	FY 1985-86	FY 1986-87	FY 1987-88				
INSTITUTE TOTAL									
Resident Instruction									
State	\$25,997,299	\$28,072,207	\$36,738,836	\$41,459,466	\$43,045,916				
Sponsored	3,474,282	3,611,054	4,500,452	5,199,546	5,801,665				
Total Resident Instr	\$29,471,581	\$31,683,261	\$41,239,288	\$46,659,012	\$48,847,581				
Eng Ext Division									
State	\$2,065,965	\$2,409,499	\$3,915,231	\$3,980,135	\$4,561,525				
Sponsored		America	15,730	200,050	108,794				
Total Eng Ext Division	\$2,065,965	\$2,409,499	\$3,930,961	\$4,180,185	\$4,670,319				
Total Instruction	\$31,537,546	\$34,092,760	\$45,170,249	\$50,839,197	\$53,517,900				
RESEARCH									
Resident Instruction									
State	\$8,009,650	\$9,802,907	\$14,289,574	\$14,675,370	\$16,063,237				
Sponsored	17,592,692	17,642,552	21,200,540	21,223,625	25,117,933				
Total Resident Instr	\$25,602,342	\$27,445,459	\$35,490,114	\$35,898,995	\$41,181,170				
Ga Tech Research Inst									
State	¢15 627 204	¢17 207 570	\$21,081,359	\$20.622.404	¢00 254 660				
	\$15,627,304	\$17,296,570		\$20,623,494	\$22,354,668				
Sponsored Total GT Research Inst	36,537,223 \$52,164,527	35,332,522 \$52,629,092	36,765,918 \$57,847,277	44,356,245 \$64,979,739	\$52,092,731 \$74,447,399				
A priovity rol Danagrah									
Agricultural Research State	£412.762	¢470 107	\$746 FOD	¢011 600	¢054.070				
State	\$412,762	\$478,197	\$746,580	\$911,680	\$954,078				
Eng Ext Division									
State	_	_	\$75,802		_				
Sponsored	4,676	29,555	_	_	_				
Total Eng Ext Division	\$4,676	\$29,555	\$75,802						
Adv Tech Dev Center									
Sponsored	_			_	_				
Center for Rehab Tech									
Sponsored	_	_		\$3,028	_				
Total Research	\$78,184,307	\$80,582,303	\$94,159,773	\$101,793,442	\$116,582,647				
PUBLIC SERVICE									
Resident Instruction									
State	************	_	\$6,005	_	\$2,342				
Sponsored	_		1,109,071	1,431,971	1,644,068				
Total Resident Instr	**************************************		\$1,115,076	\$1,431,971	\$1,646,410				
Ga Tech Research Inst									
State				\$419,550					
Sponsored	_ <del>-</del>	<u> </u>		Ψ.17,550	\$30,714				
Total GT Research Inst				\$419 <b>,</b> 550	\$30,714				
Tour OT Research hist		_		Ψ <del>-</del> 17,220	Ψ50,714				

Expenditures					
<b>8</b>	FY 1983-84	FY 1984-85	FY 1985-86	FY 1986-87	FY 1987-88
PUBLIC SERVICE continued					
Adv Tech Dev Center					
State	\$505,207	\$633,763	\$703,860	\$806,751	\$958,587
Sponsored	34,840	80,861	38,096	34,202	17,497
Total ATDC	\$540,047	\$714,624	\$741,956	\$840,953	\$976,084
Center for Rehab Tech					
State			\$355,449	\$630,031	\$826,008
Sponsored Total CRT	<del></del> \$0	<u> </u>	373	81,150	37,855
Total CRT	20	20	355,822	\$711,181	\$863,863
Total Public Service	\$540,047	\$714,624	\$2,212,854	\$3,403,655	\$3,517,071
ACADEMIC SUPPORT					
Resident Instruction					
State	\$9,064,318	\$10,586,891	\$13,413,184	\$13,147,734	\$13,650,162
Sponsored	_	-	178,232	2,443,148	2,821,840
Total Academic Support	\$9,064,318	\$10,586,891	\$13,591,416	\$15,590,882	\$16,472,002
STUDENT SERVICES					
Resident Instruction					
State	\$1,966,197	\$2,115,323	\$2,802,103	\$2,966,320	\$3,204,882
Sponsored	31,375	21,935	6,687	26,262	22,345
Total Student Services	\$1,997,572	\$2,137,258	\$2,808,790	\$2,992,582	\$3,227,227
INSTITUTIONAL SUPPORT					
Resident Instruction					
State	\$17,735,801	\$19,122,835	\$11,708,300	\$13,724,299	\$13,838,701
Sponsored	663,944	850,921	1,104,511	1,220,334	1,437,479
Total Resident Instr	\$18,399,745	\$19,973,756	\$12,812,811	\$14,944,633	\$15,276,180
Eng Ext Division					
State	\$179,730	\$205,296	\$21,178	\$21,372	\$25,569
Ga Tech Research Inst					
State	\$3,815,369	\$4,105,337	\$2,674,522	\$3,153,755	\$4,075,974
Agricultural Research					
State	\$74,957	\$91,072	_	\$843	_
Adv. Tool Day Control					
Adv Tech Dev Center State	\$64,564	\$96,673	\$30,020	\$52,900	\$49,744
Center for Rehab Tech					
State	_	·	<del></del>	\$1,727	\$3,647
Total Institutional Support	\$22,534,365	\$24,472,134	\$15,538,531	\$18,175,230	\$19,431,114

		<b>Expenditures</b>				
OPERATION OF BLANT	FY 1983-84	FY 1984-85	FY 1985-86	FY 1986-87	FY 1987-88	
OPERATION OF PLANT						
Resident Instruction						
State	\$9,072,581	\$11,585,906	\$11,707,214	\$13,097,196	\$14,597,693	
Sponsored	8,759	6,897		612.007.107	<u></u>	
Total Resident Instr	\$9,081,340	\$11,592,803	\$11,707,214	\$13,097,196	\$14,597,693	
Eng Ext Division						
State	\$49,244	\$72,489	\$74,500	\$61,996	\$70,094	
Ga Tech Research Inst						
State	\$1,473,448	\$2,047,848	\$2,171,573	\$2,570,261	\$2,483,925	
Sponsored	7,775	10,261	6,925			
Total GT Research Inst	\$1,481,223	\$2,058,109	\$2,178,498	\$2,570,261	\$2,483,025	
Agricultural Research						
State	_	_	\$506	\$1,194	_	
Adv Tech Dev Center						
State	\$40,688	\$122,624	\$162,760	\$178,830	\$196,432	
Total Operation of Plant	\$10,652,495	\$13,846,025	\$14,123,478	\$15,909,477	\$17,348,144	
SCHOLAR & FELLOW—RI	\$3,995,958	\$4,273,163	\$4,160,507	\$4,037,239	\$5,008,108	
AUXILIARY ENTERPRISES	\$14,002,097	\$16,258,505	\$16,763,038	\$19,293,927	\$20,084,227	
GA TECH ATHLETIC ASSN	\$6,508,000	\$7,843,968	\$8,917,309	\$9,764,937	\$10,828,968	
STUDENT ACTIVITIES	\$1,245,652	\$1,286,869	\$1,296,050	\$1,450,273	\$1,460,596	
GA TECH FOUND, INC	\$4,850,417	\$4,787,477	\$5,098,663	\$5,699,444	\$4,836,552	
GA TECH RESEARCH CORP	\$4,392,000	\$4,449,361	\$3,869,052	\$2,020,503	\$3,235,116	
UNEXP PLANT FUNDS	\$3,158,067	\$7,407,171	\$3,541,192	\$4,947,996	\$7,428,025	

Expenditures					
u u	FY 1983-84	FY 1984-85	FY 1985-86	FY 1986-87	FY 1987-88
GRAND TOTAL					
Resident Instruction					
State	\$71,845,846	\$81,286,069	\$90,665,216	\$99,070,385	\$104,402,933
Sponsored	21,771,052	22,133,359	28,099,493	31,544,886	36,845,330
Scholar & Fellow	3,995,958	4,273,163	4,160,507	4,037,239	5,008,108
Total Resident Instr	\$97,612,856	\$107,692,591	\$122,925,216	\$134,652,510	\$146,256,371
Eng Ext Division	2,299,615	2,716,839	4,102,441	4,263,553	4,765,982
Ga Tech Research Inst	57,461,119	58,792,538	62,700,297	71,123,305	81,038,012
Agricultural Research	487,719	569,269	747,086	913,717	954,078
Adv Tech Dev Center	645,299	933,921	934,736	1,072,683	1,222,260
Center for Rehab Tech	*******	_	355,822	715,936	867,510
Auxiliary Enterprises	14,002,097	16,258,505	16,763,038	19,293,927	20,084,227
Ga Tech Athletic Assn	6,508,000	7,843,968	8,917,309	9,764,937	10,828,968
Student Activities	1,245,652	1,286,869	1,296,050	1,450,273	1,460,596
Ga Tech Found, Inc.	4,850,417	4,787,477	5,098,663	5,699,444	4,836,552
Ga Tech Research Corp	4,392,000	4,449,361	3,869,052	2,020,503	3,235,116
Unexp Plant Fund	3,158,067	7,407,171	3,541,192	4,947,996	7,428,025
TOTAL	\$192,662,841	\$212,738,509	\$231,250,902	\$255,918,784	\$282,977,697

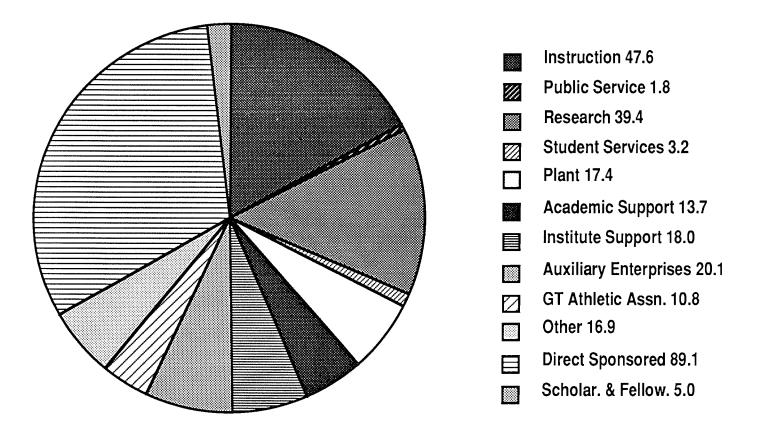
#### NOTE:

Institutional Support in FY 1983-84 and FY 1984-85 Actual includes Teachers' Retirement expense which was previously reported by the Board of Regents.

In FY 1985-86 Fringe Benefits (including Teachers' Retirement) are distributed by function instead of being consolidated into Institutional Support as in prior years per direction of the Board of Regents.

Source: Office of the Associate Vice-President for Business and Finance

# CONSOLIDATED EXPENDITURES BY FUNCTION Fiscal Year 1987-88: \$283.0 Million



# Financial Data by Percentage

#### **REVENUE**

Georgia Institute of Technology's revenue from all sources in the 1987-88 fiscal year is \$284,862,866, including an increase of \$25,294,557 or 9.7 percent over revenue of \$259,568,309 in the 1986-87 fiscal year.

The breakdown of revenue by percentage of the amount in 1987-88, compared with the prior five years is:

	REVENUE BY PERCENTAGE						
	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88	
State Appropriation	25.8	28.0	29.0	29.2	28.6	28.1	
Student Tuition & Fees	11.7	11.1	11.3	12.1	12.3	11.7	
Endowment	0.9	0.7	0.7	0.4	0.3	0.1	
Gifts & Grants	0.5	0.3	1.0	0.1	0.5	0.1	
Indirect Cost Recoveries	8.9	8.8	8.7	10.0	8.8	8.8	
Sponsored Operations	30.7	30.1	27.0	27.7	29.4	31.3	
Scholarships & Fellowships	2.1	2.1	2.0	1.8	1.5	1.8	
Auxiliary Enterprises	8.0	7.7	8.1	8.3	8.8	8.2	
Georgia Tech Athletic Association,	Inc. 3.0	3.4	3.7	3.9	3.8	3.3	
Student Activities	0.7	0.6	0.6	0.6	0.5	0.5	
Georgia Tech Foundation, Inc.	2.9	2.5	2.2	2.2	2.2	1.7	
Georgia Tech Research Corporation	2.3	2.3	2.1	1.7	0.8	1.1	
Other Sources	2.5	2.4	3.6	2.0	2.5	3.3	
TOTAL	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

#### **EXPENDITURES**

The expenditures for 1987-88 were \$282,977,697, including an increase of \$27,058,913 or 10.6 percent over expenditures of \$255,918,784 in the 1986-87 fiscal year.

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

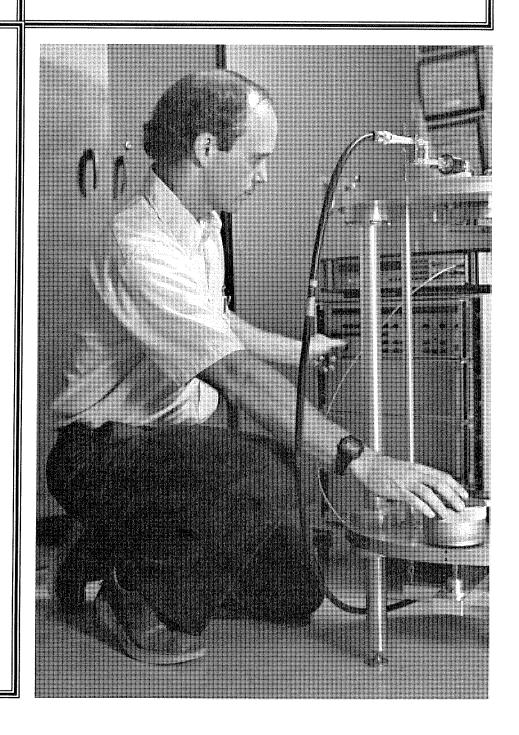
	EXPENDITURES BY PERCENTAGE						
	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88	
Instruction	15.1	14.6	14.4	17.6	17.7	16.8	
Research	13.2	12.5	13.0	15.7	14.1	13.9	
Public Service	0.2	0.3	0.3	0.5	0.7	0.7	
Academic Support	5.1	4.7	5.0	5.8	5.2	4.8	
Student Services	1.1	1.0	1.0	1.2	1.2	1.1	
Institutional Support	7.8	11.0	10.8	6.2	6.7	6.4	
Operation of Plant	6.4	5.9	6.9	6.1	6.2	6.1	
Sponsored Operations	30.8	30.4	27.2	28.0	29.8	31.5	
Scholarships & Fellowships	2.1	2.1	2.0	1.8	1.6	1.8	
Auxiliary Enterprises	7.7	6.9	7.2	7.3	7.5	7.1	
Georgia Tech Athletic Association, I	nc. 3.0	3.4	3.7	3.8	3.8	3.8	
Student Activities	0.6	0.7	0.6	0.6	0.6	0.2	
Georgia Tech Foundation, Inc.	2.9	2.5	2.3	2.2	2.2	2.1	
Georgia Tech Research Corporation	2.3	2.3	2.1	1.7	0.8	1.1	
Unexpended Plant Fund	1.7	1.7	3.5	1.5	1.9	2.6	
TOTAL	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

Source: Office of the Associate Vice-President for Business and Finance

## RESEARCH

1988-89

FACT BOOK

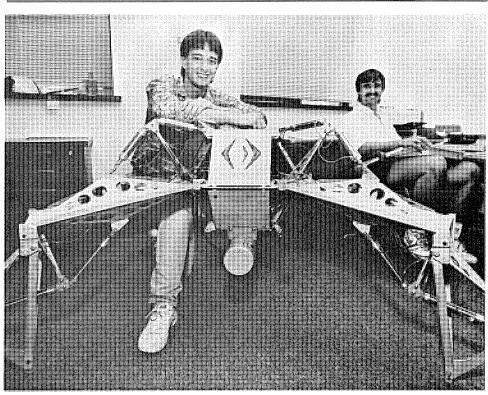


# Research at Georgia Tech

Georgia Tech is a major center for advanced technology in Georgia and the Southeast. With a full-time general faculty of more than 1,500, mostly scientists and engineers, it conducts research of national significance; provides services and facilities to faculty, students, industry, and government agencies; and supports the economic and technological growth of the state. Research operations are carried out through a group of schools, centers, and laboratories, with each performing research in a particular field of interest.

Most of the research is supported by contracts with government organizations and private industry. The Georgia Tech Research Corporation, a nonprofit organization incorporated under the laws of the state of Georgia, serves as the contract agency. It also handles patent and other financial and administrative research matters.

Research programs range from alternate energy research to the development of electronic defense systems; from economic development assistance to business and industry to the application of complex computer technology; from analyses of systems for monitoring stratospheric pollution to the design and implementation of totally new radars; from the evolution of processing techniques for earth



resources satellites to management of the nation's second largest solar energy test facility. Contracts vary in size from a \$100 million contract with the federal government to a \$500 contract with a rural industry. There are programs with local, regional, and state governments, with many companies, with other research and development organizations, and with other nations.

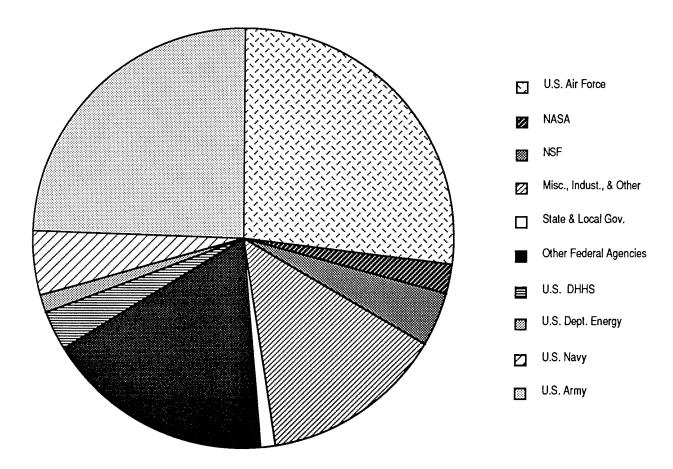
Much of the total research activity is within the broad field of electronics, including electronic defense, electronic systems, electronic techniques and components, antennas, microelectronics, electromagnetics, and optical electronics. Energy research on solar and other alternate energy forms and work on energy

conservation and applications are also important areas, as are the following: domestic and international economic development; computer technology and applications; mechanics; and the fields of biological, physical, chemical, material, earth, atmospheric, and social sciences.

Most of the research is performed on the Georgia Tech campus, but there are also various off-campus facilities. About 58 percent of the research and extension activities are managed by the Georgia Tech Research Institute, and 42 percent are managed by centers and academic schools and colleges.

Source: Office of the Executive Vice-President

#### TOTAL SPONSORED RESEARCH As of 30 June 1988



### Research Summary

#### RESEARCH GRANTS AND CONTRACTS\* FY 1987-88 BY AWARDING AGENCY

AWARDING AGENCY	1987-88	% of Total
National Science Foundation	\$4,961,749	4.2
National Aeronautics & Space Administration	2,757,884	2.3
U. S. Air Force	32,564,307	27.4
U. S. Army	29,545,307	24.8
U. S. Navy	5,952,280	5.0
U. S. Department of Energy	1,678,856	1.4
U. S. Department of Health and Human Services	3,743,454	3.1
Other Federal Agencies	20,903,477	17.6
Total Federal Government	\$102,107,314	85.8
State and Local Governments	\$37,227	0.3
Miscellaneous, Industrial, & Other	\$16,861,850	14.2
GRAND TOTAL	\$119,006,391	

<sup>\*</sup> This summary does not include other extramural support such as fellowships, training grants, and instructional equipment grants.

#### RESEARCH SUMMARY FY 82-83 / FY 87-88

	FY	<b>/</b> 82-83	FY 83-84		FY 84-85	
Unit	No.	Amount	No.	Amount	No.	Amount
Engineering	256	\$11,217,350	189	\$11,558,742	184	\$12,781,768
Architecture	22	1,583,250	26	1,230,586	19	543,518
COSALS	104	9,948,624	92	6,969,669	106	6,257,525
Management	3	141,741	5	335,770	5	355,090
Research Centers	30	1,407,520	109	1,187,654	102	1,932,594
GTRI	519	58,085,969	534	45,100,256	567	53,955,930
Total	934	\$82,384,454	955	\$66,382,677	983	\$75,826,425
	FY	′ 85-86	FY	′ 86-87	FY	′ 87-88
Unit	No.	Amount	No.	Amount	No.	Amount
Engineering	226	\$18,783,213	247	\$17,836,180	234	\$19,915,808
Architecture	18	645,070	8	246,270	7	141,294
COSALS	128	9,795,005	110	8,161,649	130	9,714,653
Management	1	36,240	7	411,207	5	537,881

30

539

941

1,571,846

60,264,658

\$88,491,810

Source: Office of the Executive Vice-Presidemt

67

536

976

915,019

75,456,553

\$105,631,100

Research Centers

Total

**GTRI** 

2,618,992

86,077,763

\$119,006,391

74

508

958

### Research Summary

#### RESEARCH SUMMARY BY UNIT, July 1987-June 1988

	PRO	POSALS	AWARDS		
UNIT	Number	\$ Amount	Number	\$ Amount	
College of Engineering					
Aerospace	71	15,378,799	41	3,357,316	
Chemical	43	5,826,580	12	561,906	
Civil	71	24,091,967	23	740,124	
Electrical	132	41,294,547	57	9,528,000	
Engineering Science & Mechanics	*****	*******		_	
Industrial & Systems	31	27,423,546	13	1,208,091	
Material	37	4,427,872	17	785,950	
Mechanical	154	51,691,936	66	3,108,212	
Textile	11	1,772,164	5	626,209	
Total	550	\$171,907,411	234	\$19,915,808	
College of Sciences & Liberal Studies (COSALS)					
Biology	17	1,954,842	8	331,207	
Chemistry	54	12,024,519	23	2,693,176	
English				_	
Geoscience	66	9,181,576	33	2,116,974	
Information & Computer Science	40	6,690,010	20	1,856,463	
Mathematics	26	2,742,467	11	623,948	
Physics	48	7,147,926	23	1,244,220	
Psychology	24	3,852,723	11	821,207	
Social Sciences	2	122,793	1	27,458	
Modern Languages Total	277	\$43,716,856	130	\$9,714,653	
College of Management	11	\$1,157,512	5	\$537,881	
College of Architecture	28	\$1,387,345	7	\$141,294	
•	20	¢1,367,3 <del>4</del> 3	,	\$141,234	
Research Centers					
Advanced Technology Development Center	_	468	_	468	
Nuclear Research Center	9	2,567,878	2	37,200	
Office of Interdisciplinary Programs	147	34,929,734	70	2,509,824	
Other	9	806,302	2	71,500	
Total	165	\$38,304,382	74	\$2,618,992	
Georgia Tech Research Institute					
Office of the Director	1	41,520		_	
Electronics & Computer Systems Laboratory	182	31,218,557	116	12,601,346	
Economic Development Laboratory	77	5,498,267	37	2,614,811	
Electromagnetics Laboratory	135	38,830,287	86	6,298,387	
Energy & Materials Sciences Laboratory	104	18,185,102	58	2,786,967	
Radar & Instrumentation Laboratory	136	61,244,244	93	16,850,092	
Systems Engineering Laboratory	82	47,197,347	61	21,794,423	
Systems & Techniques Laboratory	66	81,024,870	57 500	23,131,737	
Total	783	\$283,240,194	508	\$86,077,763	
TOTAL FOR INSTITUTE	1,814	\$539,713,700	958	\$119,006,391	

Source: Office of the Executive Vice-President

## Contract Administration

The Executive Vice-President has the executive responsibility for all research programs conducted at the Georgia Institute of Technology. He works with the deans, directors, and other department heads in establishing research policies and procedures. In partnership with the Office of the President and the Georgia Tech Research Corporation (GTRC), the Office of Contract Administration (OCA) provides program development assistance as well as overall contract management for the research program at Georgia Tech. Organizationally, the program is administered through five operating divisions, all reporting to the Director of OCA.

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#### **Legal Division**

The Legal Division is responsible for providing assistance to the Institute in matters relating to intellectual property law and management; technology licensing and protection; legal analysis and counsel on questions of contract law; federal, state, and local statutes and regulations; and technology exportation.

Within the Legal Division, the Office of Technology Transfer is responsible for the management of Georgia Tech's invention program. This office provides assistance to faculty and staff in the preparation of their records of invention (ROIs) and is responsible for timely reviews of the ROIs in accordance with Georgia Tech's patent policy, including seeking patent protection as appropriate. The office serves as the interface with University Technology Corporation (UTC), worldwide exclusive agent for marketing most of Tech's technologies (except software), in approving license agreements and disbursements of royalty income.

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#### **Program Initiation Division**

The Program Initiation Division (PID) provides assistance that leads to the submission of formal proposals, including review and interpretation of solicitation contractual requirements, determination of appropriate contract terms, and establishment of any precontract agreements. Being responsible for submission of all proposal and grant applications for sponsored research and instruction from the Georgia Tech Research Corporation (GTRC) and the Georgia Institute of Technology, its contracting officers review proposals and cost estimates for compliance

with sponsor requirements and Institute policies and prepare the business portion of proposals. PID serves as the sponsor's point of contact for business matters during the evaluation process, negotiates the final terms of the contract or grant, and signs, in conjunction with an officer of GTRC, the resulting agreement. In addition, PID handles contract modifications that increase the funding of existing projects.

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#### **Program Administration Division**

The Program Administration Division (PAD) has the responsibility of monitoring active grants and contracts. Upon PAD's receipt of a signed agreement from PID, an initial in-depth review of the award documents takes place, and relevant initiation forms are prepared and distributed. Complete project files are established and maintained for the duration of the program. Modifications to an existing program involving an extension of time and/ or a change in terms and conditions are processed by PAD so long as there is no increase in funding (increases in funding are handled by PID). Liaison with the sponsor is maintained by PAD contracting officers through responses to

contractual situations or requests on day-to-day administrative matters. Responsibilities include the monitoring of programs to see that potential problems in meeting contractual obligations (i.e., of assurance satisfactory performance, submission of all deliverables, etc.) are called to the attention of Georgia Tech management in a timely manner. PAD is also responsible for the preparation, monitoring, and closeout of subcontracts and consulting agreements issued by Georgia Tech, as well as the preparation and administration of required Small Business Administration (SBA) subcontracting plans.

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#### **Contracting Support Division**

The Contracting Support Division (CSD) provides a multitude of services internally to OCA and externally to the entire university. CSD orders and distributes RFPs (requests for proposals) as well as assists individual researchers in program development activities. The newsletters RESEARCH NEWS and RESEARCH OPPORTUNITIES are published by this division. CSD

distributes all proposals and deliverable reports utilizing the most effective means of delivery. CSD serves as the central filing center for all contract progress reports pending receipt of final reports and subsequent submission to the Archives section of the Georgia Tech Library. When a grant or contract is completed, CSD initiates all actions required to close out the program (i.e., final billing, preparation of research property records, closing certificates, accounting for patents and classified documents, etc.). CSD also operates telecommunications equipment to support the Institute's needs for worldwide transmission and receipt of telex and telefax communications as well as providing courier and commercial carrier depot services. Internally for OCA, CSD maintains all sponsored contract files as well as maintains the automated data base used for management control and report generating.

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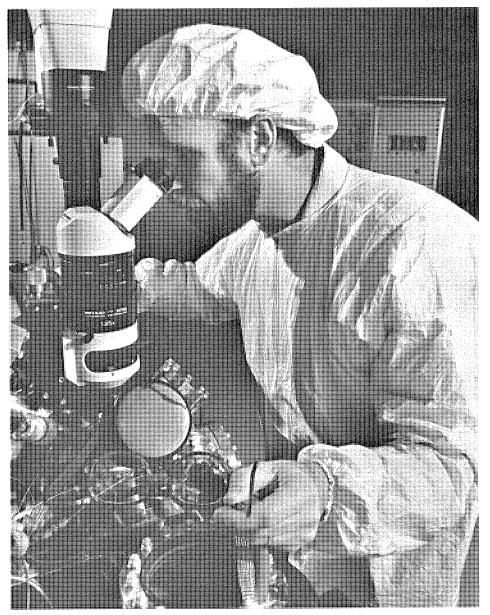
#### **Printing and Photographic Center**

The Printing and Photographic Center (PPC) is the only organized reproduction facility on the Georgia Tech campus. Its

### Contract Administration

printing and photographic departments serve not only the needs of the rapidly expanding research activities but those of the academic units as well. Faculty and students benefit from its modern quick copy facility and research copy center where reports and other documents are reproduced and assembled promptly. A layout section is available to assist the writer in translating concepts into plate-ready material for printing. Supporting the press facility is a copy camera capable of making enlargements/reductions of engineering drawings or photographs and a newly organized typesetting unit. The photographic department is equipped with a wide variety of cameras, movie and still, high speed and slow motion, for research or other uses. PPC is wellequipped and staffed to meet the instructional, research. administrative requirements of a major academic institution.

Source: Office of the Director, Contract Administration



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. 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 Center for the Advancement of Computational Mechanics is dedicated to the advancement of the science of computational analyses. Major research thrusts include nonlinear 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 Mechanical Properties Research Laboratory 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 of Georgia and of the Southeast. The major emphasis in research is in nonmetallics 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 statewide through Tech's twelve extension offices. Longer term research needs are approached through special projects for special industrial groups. Emphasis is placed on production technology, industrial economics, business, and human resource management.

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

very large scale integration (VLSI) chip design.

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

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

The Rehabilitation Technology Center facilitates research on devices and systems that help handicapped or disabled persons by removing functional barriers in the

### Research Centers

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 that face our society. Typical areas of investigation involve analyses of social impact, organizational behavior, institutional responsiveness and costrisk-benefit features associated with alternative policies, and strategies for the management of scientific and technological development.

The Center for Work Performance Problems is an international, interinstitutional, interdisciplinary organization to conduct research, promote education and publication, and offer consultation on the broad range of workplace issues that relate to the human side of work performance. These workplace issues encompass both those problems employees bring to work and those created by the work environment.

### Research Centers

The Materials Handling **Research Center** is a joint university/ industry activity that produces research results which will ultimately improve the handling, storage, and control of material. The center's research programs include design, development, and operational studies that have applications 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 Excellence inRotary Wing Aircraft Technology provides a national focal point to stimulate more continuous research in helicopter technology and more comprehensive graduate training for engineers in the field. Georgia Tech was selected by the U.S. Army as one of their three centers for excellence in rotary wing aircraft technology.

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

The Research Center for Biotechnology provides a focus for

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

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

The Construction Research Center supports both applied and scholarly research in architecture and architectural construction.

The purpose of the Georgia Tech/Emory University Biomedical Technology Research Center is to create and sustain an environment in which collaborative research and education in the medical, biological, engineering, and physical sciences can flourish, and through which advances in research will be transferred to the delivery of health care.

The Software Engineering Research Center is a multidisciplinary research center, centrally managed and dedicated to research, development, and transition in the technologies that aid in the efficient production of low cost, high quality computer software for a variety of applications.

The Manufacturing Research Center will coordinate the research activities related to manufacturing at Georgia Tech. The initial focus will be on electronics assembly systems and will include materials, interconnection technology, manufacturing processes, and manufacturing systems. Initial funding will come from the state of Georgia to build and equip a new facility and from industry to fund the research efforts to be conducted.

The Center for Dynamical Systems and Non-Linear Studies will conduct interdisciplinary research in dynamical systems, including both infinite and finite dimensional systems. Applications to material processing, Electrical Engineering control theory, fluid dynamics, computational fluid dynamics and other topics will be emphasized.

Source: Office of the Vice-President for Interdisciplinary Programs

The Georgia Tech Research Institute (GTRI) is a nonprofit research organization chartered by the Georgia legislature and is an integral part of Georgia Tech. Its missions include: providing service to the community, state and nation; conducting scientific, engineering, and industrial research; encouraging the development of Georgia's natural resources; aiding industrial and economic development; and participating in national programs of science, technology, and preparedness.

There is considerable interaction in research and instruction between the staff of GTRI and the academic schools and departments. There is also increasing involvement in the presentation of seminars and other forms of specialized training for off-campus groups.

GTRI is headquartered on the Georgia Tech campus where most of its staff are located. GTRI activities also are located at an off-campus leased facility in nearby Cobb County, as well as at twelve field offices located throughout the state in Albany, Augusta, Brunswick, Carrollton, Columbus, Douglas, Dublin, Gainesville, Macon, Madison, Rome, and Savannah. In addition, other groups are performing research at the sponsors' locations: Eglin Air Force Base, Florida; the Army Missile command in Huntsville, Alabama; the Warner Robins Air Logistics Center in Georgia; Ft. Monmouth, New Jersey; Dayton, Ohio; and China Lake, California.

GTRI is organized into seven major research laboratories as described briefly below:

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## ECONOMIC DEVELOPMENT LABORATORY

The ECONOMIC DEVELOPMENT LABORATORY (EDL) transfers technology to business, performs applied economic research for fact-based decision-making, engineers safe work places and environments, and provides continuing education and on-site industrial training. The lab operates an Industrial Extension Service via twelve regional offices located throughout Georgia. Major EDL programs include industrial market

research and feasibility studies, hazardous waste management, occupational safety and health consultation, industrial energy conservation, agricultural technology, and assistance to importimpacted firms. EDL has established a solid reputation in energy demand forecasting, cost-benefit analyses, indoor air quality research, ergonomics, and international economic development. administers the Industrial Education program for Georgia Tech (see page 105).

# Georgia Tech Research Institute

ELECTROMAGNETICS LABORATORY

The ELECTROMAGNETICS LABORATORY (EML) is composed of four major research units: Electro-Optics: Physical Sciences: Millimeter-Wave Techniques; and the Huntsville Operations. A broad spectrum of research programs covers both governmental and industrial activities. Some of these digital image processing. millimeter-wave technology, molecular beam epitaxy (MBE), radiometric systems, remote sensing applications, semiconductor materials, chemical kinetics and photochemistry, artificial intelligence, optoelectronics, aerodynamics, LIDAR, optical and infrared systems, quantum well superlattice materials and devices, micromechanics, interconnect technology, high-resolution spectroscopy, optical aperture synthesis, and imaging through the turbulent atmosphere.

## ELECTRONICS AND COMPUTER SYSTEMS LABORATORY

The ELECTRONICS AND COMPUTER SYSTEMS LABORATORY (ECSL) is composed of an Observable Program Office and four

### Georgia Tech Research Institute

major units: Communications Systems; Computer Systems and Technology; Electromagnetic Compatibility; and Electromagnetic Effectiveness. A sample of the research activities performed in ECSL includes research in various observables technology areas as well as research of antenna systems including phased arrays, electromagnetic scattering, design and analysis of robust communication systems, analysis and control of electromagnetic interference effects, information management and decision-support systems, artificial intelligence and robotics, real-time data acquisition and display systems, and design and development of unique instrumentation for electromagnetic measurement and medical-type applications.

ENERGY AND MATERIAL SCIENCES LABORATORY

The ENERGY AND MATERIAL SCIENCES LABORATORY (EMSL) is composed of three units: Materials Science Division, Engineering Sciences Division, and the Materials Processing Program. The research is directed toward multidisciplinary advanced engineering and the physical sciences as applied to development, characterization, and

processing of new materials and material systems, energy production and conversion, and the resolution of environmental problems. Current projects include development of ceramic matrix composites, ceramic coatings, thermite synthesis, zeolite research, defense materials and structures, molecular multilayer technology, polymer science and engineering, solar thermal R&D, application of superconducting materials, and biomass conversion to fuels and chemicals.

## RADAR AND INSTRUMENTATION LABORATORY

RADAR AND The INSTRUMENTATION LABORATORY (RAIL) is composed of four major units: Modeling and Analysis; Radar Applications; Technology Development; and a Special Projects Office. The Fort Monmouth Office (FMO) is located at Ft. Monmouth, New Jersey. Areas of national recognition include millimeter-wave technology, characterization of targets and clutter, polarization processing, instrumentation radars and reflectivity measurements, stationary target detection, target classification, radar transmitters and modulators. New research thrusts include electronic counter countermeasures; Identification:

Friend or Foe (IFF) Technology; tracking radar systems; fiber optics technology/applications; and guidance/seeker technology.

## SYSTEMS AND TECHNIQUES LABORATORY

**SYSTEMS** AND The TECHNIQUES LABORATORY (STL) is composed of a program office and three major units: Advanced Technology; Radar Systems; and Microwave Systems. A significant part of the research in STL is related to threat radar systems. This work focuses on the analysis, design, fabrication, and testing of threat radar systems and subsystems. Other technical thrusts are in microwave systems, and communications systems, including special antennas, antenna measurements, signal processing for advanced systems, and data communications networks. A few of the major accomplishments in this laboratory include:

- development of advanced radar systems
- development of antenna range improvements (fixed and mobile) including design and development of an outdoor compact range
- research and development programs on modular sensors

for future phased array technology architectures

 development of a meteorological data network for the Navy

## SYSTEMS ENGINEERING LABORATORY

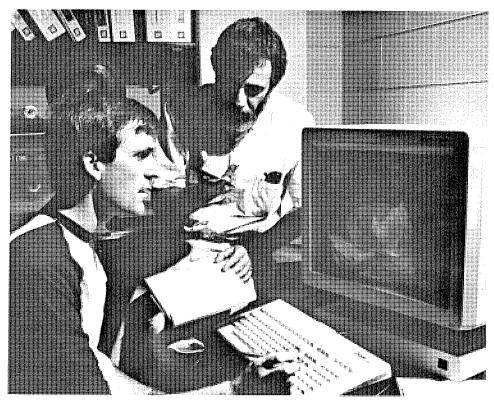
The SYSTEMS ENGINEERING LABORATORY (SEL) is composed of four major units: Concepts Analysis; Countermeasures Development; Defense Systems; and Electronic Support Measures. In addition, SEL has an Advanced Programs Office and a Techniques Analysis Program Office on campus, plus field offices located near Eglin Air Force Base in Florida, Warner Robins Air Logistics Center in Georgia, and Wright Patterson Air Force Base in Ohio. They are engaged in large-scale systems analysis and in-depth modeling of system concepts, and

development. 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

# Georgia Tech Research Institute

signal processing. An area of particular significance is technology insertion of VLSI microelectronics to update ECM systems. In addition, emerging areas are the applications of Artificial Intelligence and neural net technology to optimally use ECM.

Source: Office of the Director, GTRI

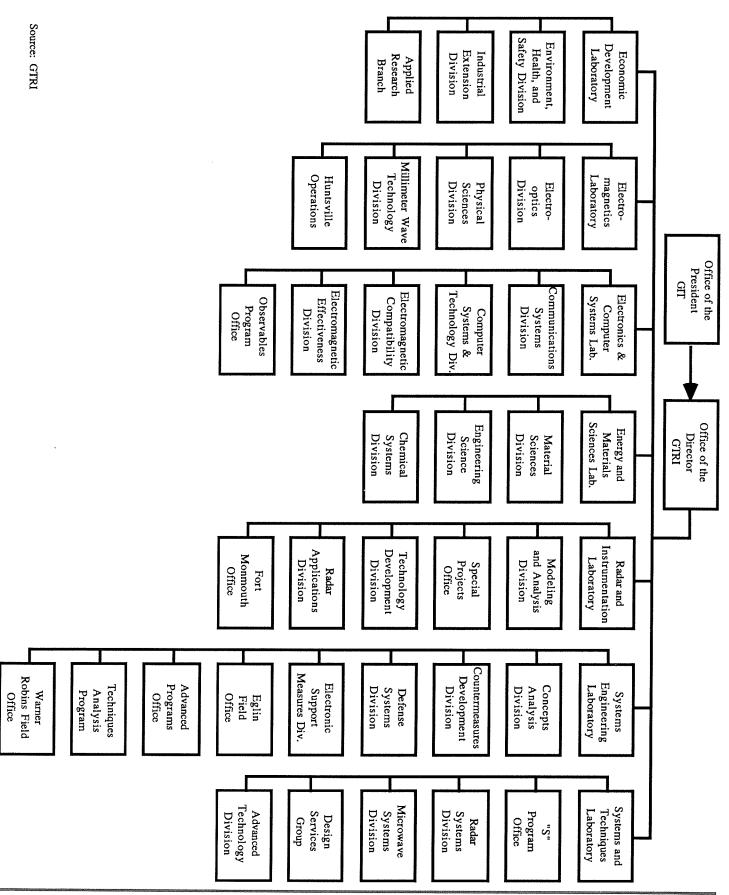


### Georgia Tech Research Institute

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Research Regular (full-time)	Number	Percentage	Total	
Professional			646	
By Highest Degree			010	
Doctorate*	115	18.0%		
Master's	318	49.2%		
Bachelor's	198	30.7%		
Other	6	0.8% 1.3%		
No Degree	9	1.5%		
Support			339	
Total Research Regular (full-time)			985	
Supplementary (part-time)				
	Number			
Professional	32			
Support	134			
Graduate Research Assistants	111			
Co-op Students Student Assistants	151 103			
Student Assistants	103			
Total Supplementary (part-time)			531	
TOTAL STAFF			1,516	
*Includes J.D.'s and M.D.'s				
***				
	FY 87/88 FINANCIAL DATA			
Activity Level/Funding Sources				
Research Contracts and Grants	\$68.3 million			
Interdepartmental Services	6.5 million			
State Appropriation	10.6 million			
TOTAL	\$8.	5.4 million		
***				
RESEARCH FACILITIES				
On-Campus Research Space	379,599 sq. ft.			
Off-Campus Research Space	156,719 sq. ft.			
TOTAL	536,318 sq. ft.			
Source: Office of the Director, Georgia Tech Research Institute				

### Georgia Tech Research Institute



#### ATDC

The Advanced Technology Development Center (ATDC) was created in 1980 by the Governor of Georgia, the General Assembly, and leaders from the Georgia Institute of Technology to strengthen the state's economy through the development of high technology industry.

The purpose of the ATDC is to increase

- the number of jobs created,
- · products developed,
- · revenues generated, and
- taxes from technology-based industries within Georgia

The ATDC has two equally important missions:

- to serve the Georgia high technology community as a business incubator, providing technical and managerial support to start-up companies to reduce the risk of business failure, and
- to promote high technology development in Georgia by attracting research and development divisions and new technology venture groups of large national and international corporations into Georgia.

Early-stage companies are selected for admission to the ATDC on the basis of their:

- (1) application and commercialization of advanced technology,
- (2) proposed product, process, or service,

- (3) qualified management team,
- (4) product marketability,
- (5) ability to gain financing, and
- (6) growth potential

Selection criteria to join the ATDC focus on companies engaged in technologies related to strong science and engineering programs and on the technological industries specifically being sought by the state of Georgia:

- biotechnology
- telecommunications
- computer research
- · software development
- · microelectronics
- aerospace and defense
- instrumentation

The ATDC occupies a \$6.1 million, 83,000-square-foot, twobuilding Technology Business Center on the Tech campus, offering office, laboratory, and industrial space. A second ATDC site opened in July 1987 on the campus of the Medical College of Georgia in Augusta. The Health Science Technology Center (HSTC) assists entrepreneurs in commercializing the results of medical research. A third branch was established in Warner Robins in September 1988. Middle Georgia Technology Development Center (MGTDC) concentrates on assisting firms developing defense and aerospace technologies.

One hundred companies have participated as members of the ATDC Entrepreneurial Services program since 1980. Seventy percent of these companies are still active. Those seventy companies today employ over 1,100 persons and have created an additional 1,520 jobs because of their multiplier effect. Combined revenues of ATDC companies exceed \$110 million annually, with a total economic impact value of \$162 million. Georgia's tax income from ATDC-assisted companies will be \$12 million during CY 1989 alone.

The ATDC's efforts have resulted in the recruitment of twenty high technology firms into Georgia. Through FY 1989, nineteen of those companies will have accounted for 1,700 direct company jobs and 3,720 total jobs in Georgia. State payroll income taxes from the direct jobs will amount to \$4 million in FY 1989. When the Institute of Paper Chemistry completes its relocation to Georgia in early 1989, it will add 220 faculty jobs, 100 graduate students, and \$13 million in revenues to the Georgia technology base.

New ATDC activities focus on supporting Georgia's academic and research facilities, assisting statewide technology development efforts, creating public and private seed capital funds, creating new technology and general business incubators in cities throughout Georgia, and working to attract new national technology organizations to the state.

Source: Office of the Director, ATDC

# Georgia Tech Fact Book 1988-89







#### Acknowledgements

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For additional information about this publication: Contact the Office of Institutional Planning and Research (phone 404/894-3311).

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