## 1988-89 FACT BOOK



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

Edited by Rae Adams

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## INTRODUCTION

1988-89

FACT
BOOK


# Profile of Metropolitan Allanta <br> \section*{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, $60.8^{\circ} \mathrm{F}$; January monthly mean, $42.2^{\circ} \mathrm{F}$; July monthly mean, $78.0^{\circ} \mathrm{F}$; average annual precipitation, 48.34 inches. Cold spells are short-lived, with daily minimum temperatures seldom below freezing. Atlanta'sclimate 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; Conventioncities, 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: Scveral 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-intersive industries found in many rural areas. Retail trade, finance, insurance, and real estate and services are important. Atlanta is increasingly an intemational 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 approximatcly 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 DiseaseControl; 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 <br> 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
Atlantaboasts 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, $\mathrm{J}_{\text {r }}$. Center for Social Change; Six Flags Over Georgia; Peachtree Center Complex; Omni Complex; Zoo Atlanta; the Cyclorama; quality restaurants; specialty shops.

## The Arts <br> 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 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; 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 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 toumaments; 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


Abraham Baldwin Agricult. Coll., Tifton
Albany State College, Albany
Armstrong State College, Savannah Atlanta Metropolitan College, Atlanta Augusta College, Augusta Bainbridge College, Bainbridge Brunswick College, Brunswick Clayton State College, Morrow Columbus College, Columbus Dalton College, Dalton
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
19 Georgia Southern College, Statesboro
20 Georgia Southwestern College, Americus
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
David S. Spence
Henry G. Neal
Jacob H. Wamsley
Anne Flowers
Frederick O. Branch
Thomas E. Daniel
Arthur Dunning
James B. Mathews
Thomas F. McDonald
Haskin R. Pounds
Cathie Mayes Hudson
T. Don Davis
Richard Osburn
Gordon M. Funk
Mary Ann Hickman
H. Guy Jenkins, Jr.
Thomas E. Mann
David M. Morgan
Roger Mosshart
J. Pete Silver
Joseph J. Szutz

Chancellor
Executive Vice Chancellor
Executive Secretary
Vice Chancellor-Fiscal Affairs \& Treasurer
Vice Chancellor-Academic Affairs
Vice Chancellor-Facilities
Vice Chancellor-External Affairs
Vice Chancellor-Services and Minority Affairs
Vice Chancellor-Information Technology
Vice Chancellor-Student Services
Vice Chancellor-Research \& Planning
Assistant Vice Chancellor-Planning
Assistant Vice Chancellor-Fiscal Affairs/Personnel
Assistant Vice Chancellor-Academic Affairs
Assistant Vice Chancellor-Fiscal Affairs-
Accounting Systems and Procedures
Assistant Vice Chancellor-Affirmative Action
Assistant Vice Chancellor-Facilities
Assistant Vice Chancellor-Facilities
Assistant Vice Chancellor-Academic Affairs
Assistant Vice Chancellor-Fiscal Affairs-Budgets
Assistant Vice Chancellor-Academic Affairs
Assistant Vice Chancellor--Research

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MEMBERSHIP AND TERMS OF APPOINTMENT OF THE BOARD OF REGENTS
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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. Tumer
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

## 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 aresolution 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 (inuse 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 anorganizational 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 Southem Intercollegiate Conference.

1923 The Georgia Tech Alumnus magazine begins publication. The Alumni Association begins an alumni placement service. Tech is elected to the Southem 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 Arehitecture 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 Southem 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 Metro6 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;
- provideabroad,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.

[^0] 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


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 Enginering
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

Source: Office of the Registrar

## 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 CarnegieMellon 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 CarnegieMelon's senior vice-president for Academic Affairs.

## Administration

## Office of the President

John Patrick Crecine
Thomas E. Stelson
E. Jo Baker

David J. McGill
William H. Hitch
Homer C. Rice
Ronald M. Bell
John B. Carter
Demetrius T. Paris
Linda Martinson
Barbara E. Walsh vacant
Norman J. Johnson
Donald L.W. Bratcher
William J. Gamble, Jr.
John H. Friedmann
College of Architecture
William L. Fash
John A. Kelly
A. Frank Beckum

College of Engineering
William M. Sangster
W. Denney Freeston, Jr.

Don P. Giddens
Ronald W. Rousseau
J. Edmund Fitzgerald

Roger Webb
Michael E. Thomas
Stephen A. Antolovich
Ward Winer
Fred L. Cook

## Georgia Tech Research Institute

Donald J.Grace
Gerald J. Carey
Robert G. Shackelford
James C. Wiltse
P.J. O'Hare

David S. Clifton, Jr.
Devon G. Crowe
Fred L. Cain
Hans O. Spauschus
Edward K. Reedy
Charles K. Watt
Robert P. Zimmer

President
Executive Vice-President
Associate Vice-President/Faculty Records
Director, Center for the Enhancement of Teaching and Learning
Director, Cooperative Division
Executive Assistant to the President/Athletics
Assistant to the President/Georgia Tech Research Corporation
Assistant to the President/Alumni Relations
Special Assistant, Office of the President/Vice-President Research Administration
Executive Assistant, Office of the President
Director, Financial Analysis
Director, Institutional Planning and Institutional Research
Special Assistant, Office of the President/Academic Human Resources
Director, Human Relations
Director, Minority Educational Development
Special Assistant to the President

Dean
Associate Dean
Assistant Dean

Dean
Associate Dean
Director, School of Aerospace Engineering
Director, School of Chemical Engineering
Director, School of Civil Engineering
Acting Director, School of Electrical Engineering
Director, School of Industrial \& Systems Engineering
Director, School of Materials Engineering
Director, School of Mechanical Engineering
Director, School of Textile Engineering

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

## 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 K. Parsons | Director, Ph.D. Program |

## College of Sciences \& Liberal Studies

| Les A. Karlovitz | Dean |
| :--- | :--- |
| Thomas G. Tomabene | 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 | Director, School of Psychology |
| Daniel S. Papp | Director, School of Social Sciences |
| Colonel Larry J. Rubenstein | Head, Department of Air Force ROTC |
| Thomas M. Callaway | Head, Department of Army ROTC |
| Elizabeth Evans | Head, Department of English |
| Heidi M. Rockwood | Head, Department of Modern Languages |
| Gregory Colson | Head, Department of Music |
| Captain Donald Abbey | Head, Department of Navy ROTC |
| James A. Reedy | Head, Department of Physical Education \& Recreation |

## Computing and Information Technology

Albert P. Sheppard, Jr.
Britain J. Williams, Jr. Ray Spalding
Gary G. Watson James R. Woolen
Alton Hoover, Jr.

## Interdisciplinary Programs

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Ajit Yoganathan
Don P. Giddens
Alan L. Porter
James C. Toler
Stephen Antolovich
Satyanadham Atluri
Michael J. Matteson
D.M. Herold

Daniel P. Schrage
Richard J. Higgins
Bernd Kahn
E.P. Ellington

John H. Myers
Justin Myrick
Weston Stacey
Thomas G. Tomabene
Ira Pence
Ratib A. Karam
Frederick Rossini

Acting Vice-President
Acting Director, Computing Services
Associate Director, Computing Services
Director, Information Systems and Applications
Associate Director, Information Systems and Applications
Director, Research Computing Support Center

Vice-President for Interdisciplinary Programs
Director, Interdisciplinary Programs, and Director,Technology Policy and Assessment Center
Co-Director, Bioengineering Center
Co-Director, Georgia Tech/Emory University Biomedical Technology Research Center
Co-Director, Technology Policy and Assessment Center
Co-Director, Bioengineering Center and Director, Center for Rehabilitation Technology
Director, Mechanical Properties Research Laboratory
Director, Center for the Advancement of Computational Mechanics
Director, Georgia Mining and Minerals Resources Institute
Interim Director, Center on Work Performance Problems
Director, Center of Excellence in Rotary Wing Aircraft Technology
Director, Microelectronics Research Center
Director, Environmental Resources Center
Director, Georgia Productivity Center
Director, Center for Architectural Conservation
Director, Health Systems Research Center
Director, Fusion Research Center
Director, Research Center for Biotechnology
Director, Materials Handling Research Center
Director, Nuclear Research Center
Interim Director, Software Engineering Research Center

## Administration

Interdisciplinary Programs continued

Louis Circeo<br>M.W. Thomas

Director, Construction Research Center
Shui-Nee Chow

Interim Director, Manufacturing Engineering Research Center

Director, Center for Dynamical Systems and Nonlinear Studies

## Student Affairs

James E. Dull
$\quad$ Edwin P. Kohler
Carole E. Moore
Steven C. Leist
Sophia S. Wright
Trudy K. Wheeler
W. Miller Templeton
Russ Terwilliger
Gary J. Schwarzmueller
Roger E. Wehrle
J. Nicholas Gordon

Vice-President/Dean of Student Affairs
Associate Vice-President/Student Affairs
Assistant Vice-President/Student Affairs
Assistant to the Vice-President/Fraternity Affairs, Student Organizations
Assistant to the Vice-President/Handicapped and Non-Traditional Student Services
Assistant to the Vice-President/FASET
Director, International Student Services and Programs
Director, Counseling \& Career Planning
Director, Housing
Director, Student Center
Director, Student Health

## Office of the Registrar

Frank E. Roper, Jr.
William F. Leslie
Jerry L. Hitt
Curley Williams
Annette Satterfield
M. Jo McIver

James L. Garner
Registrar
Associate Registrar
Director, Admissions
Acting Director, Financial Aid
Director, Records
Director, Registration
Director, Undergraduate Recruiting

## Library

Miriam A. Drake
Helen R. Wiltse

## Business \& Finance

Richard Fuller, Jr.
C. Evan Crosby

Delores Gaddis
John Gibson
H. T. Marshall

John Stone
Billy B. Portwood
Jack Vickery
Roger E. Wehrle
David V. Welch
Michael J. Brandon
Research Administration
Demetrius T. Paris
Gary W. Poehlein
Helen E. Grenga

Dean and Director
Associate Director

Vice-President
Associate Vice-President/Finance
Director, Purchasing
Director, Personnel
Director, Internal Auditing
Director, Property Control
Director, Budgets
Director, Campus Safety
Director, Auxiliary Services
Director, Grants and Contracts
Director, Financial Data Management

Vice-President
Associate Vice-President, Graduate Studies and Research, and Dean, Graduate Studies Assistant Vice-President for Graduate Studies and Research

## Facilities

| Clyde D. Robbins | Vice-President for Facilities |
| :---: | :--- |
| James L. Priest | Director, Plant Operations |
| Jack P. Fenwick | Director, Design and Construction |

## Office of Communications and Development

Cecil R. Phillips
Mary E. Stoffregen
Patrick J. McKenna

## Communications

Cecil R. Phillips
Thomas K. Hamall Charles E. Harmon Patricia Grindel Thomas L. Vitale

## Development

Charles E. Gearing
John B. Carter, Jr.
Catherine C. Inabnit
vacant
William T. Lee
Linda W. McNay
Jeffrey Plank
Mary Kay Murphy
John Hannabach
Michael C. Polak
Laura Zipperer
Rosita Jackson

## Education Extension Services

Clifford R. Bragdon
George H. Adams
Charles Pope
Charles Windish
Steven Hottman

Acting Vice-President
Director for Accounting and Administration
Secretary, Georgia Tech Foundation, Inc.

Associate Vice-President
Director, Civic Affairs
Director, News Bureau
Assistant Director, Publications
Director, Special Projects

## Associate Vice-President

Director for Development/Alumni Giving
Director for Development/Parents and Faculty Programs
Director for Development/Special Gifts
Director for Development/Planned Giving
Acting Director for Development
Associate Director for Development/Foundation Relations
Director for Development/Friends Program
Director for Development/Corporate Relations and Placement Director/Joint Tech-Georgia Development Fund
Associate Director for Development/Records and Research
Assistant Director/Placement

## Office of Contract Administration

J. W. Dees Director

Jack V. Dell
Associate Director

## Advanced Technology Development Center

Richard T. Meyer
H. Wayne Hodges
W. Darrell Gertsch

Director
Associate Director
Associate Director

Source: Office of the President




## STUDENT PROFILES

1988-89

## FACT <br> BOOK



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

FALL 1983

| Percentile | SAT <br> Verbal | SAT <br> Math | High School <br> Average | Decile |
| :---: | ---: | ---: | :---: | :---: |
| 90 | 641 | 735 | 4.0 | Top |
| 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 |  |

*Scholastic Aptitude Test
** $86 \%$ of freshmen from public schools; $14 \%$ from private schools

| FALL QUARTER AVERAGE SCHOLASTIC APTITUDE TEST SCORES <br>  <br> YEAR |  |  |  |
| :---: | :---: | :---: | :---: |
|  | VERBAL | MATH | TOTAL |
| 1988 |  |  |  |
| 1987 | 544 | 651 | 1195 |
| 1986 | 550 | 656 | 1206 |
| 1985 | 541 | 646 | 1187 |
| 1984 | 535 | 638 | 1173 |
| 1983 | 532 | 636 | 1168 |
| 1982 | 524 | 632 | 1156 |
| 1981 | 530 | 630 | 1160 |
| 1980 | 530 | 628 | 1158 |
|  | 531 | 631 | 1162 |

Source: Office of the Registrar

# Composite Scholastic Aptitude Test Scores 



AVERAGE SCHOLASTIC APTITUDE TEST COMPOSITE SCORES FOR ENTERING FRESHMEN
GEORGIA TECH CUMULATIVE ENROLLMENT AVERAGE SAT*
NATIONAL AVERAGE SAT*

|  | VERBAL |  | MATH |  | TOTAL | VERBAL |  | MATH |  | TOTAL |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| YEAR | Male | Female | Male | Female |  |  | Male | Female | Male | Female |

Source: Office of the Registrar

# Freshman <br> Admissions 

FRESHMAN ADMISSIONS, FALL QUARTERS 1984-88
YEAR \& COLLEGE

FALL 1984

| Architecture | 281 |
| :--- | ---: |
| Engineering | 3,365 |
| COSALS | 925 |
| Management | 351 |
| Institution | 4,922 |

FALL 1985

| Architecture | 324 | 180 |
| :--- | ---: | ---: |
| Engineering | 3,345 | 2,448 |
| COSALS | 857 | 646 |
| Management | 395 | 252 |
| Institution | 4,921 | 3,526 |

FALL 1986

| Architecture | 389 |
| :--- | ---: |
| Engineering | 4,239 |
| COSALS | 935 |
| Management | 552 |
| Institution | 6,115 |

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 | $28 \%$ | $45 \%$ |
|  |  |  |  |  |  |  |
| LL 1988 |  |  |  | 116 | $24 \%$ | $47 \%$ |
| Architecture | 489 | 246 | $50 \%$ | 1,251 | $30 \%$ | $45 \%$ |
| Engineering | 4,203 | 2,813 | $67 \%$ | 247 | $28 \%$ | $43 \%$ |
| COSALS | 875 | 561 | 308 | $65 \%$ | 172 | $31 \%$ |
| Management | 5,171 | 3,956 | $64 \%$ | 1,796 | $29 \%$ | $56 \%$ |
| Institution |  |  |  |  |  |  |


| NUMBER | NUMBER | \% OF APPLIED | NUMBER | \% OF APPLIED | \% OF ACCEPTED |
| :---: | :---: | :---: | :---: | :---: | :---: |
| APPLIED | ACCEPTED | ACCEPTED | ENROLLED | ENROLLED | ENROLLED |
| 432 | 254 | 59\% | 106 | 25\% | 42\% |
| 690 | 298 | 43\% | 129 | 19\% | 43\% |
| 252 | 117 | 46\% | 46 | 18\% | 39\% |
| 10 | 4 | 40\% | 3 | 30\% | 75\% |
| 4,771 | 3,276 | 69\% | 1,506 | 32\% | 46\% |
| 4,733 | 3,005 | 63\% | 1,367 | 29\% | 45\% |
| 1,422 | 942 | 66\% | 423 | 30\% | 45\% |

Source: Office of the Registrar

TRANSFER ADMISSIONS, FALL QUARTERS 1984-88

YEAR \& COLL
FALL 1984
Architecture
Engineering
COSALS
Management
Institution

FALL 1985
Architecture
Engineering
COSALS
Management Institution

FALL 1986
Architecture
Engincering
COSALS
Management Institution

FALL 1987
Architecture
Engincering COSALS Management Institution

FALL 1988

| Architecture | 75 | 27 | $36 \%$ | 20 | $27 \%$ | $74 \%$ |
| :--- | ---: | ---: | ---: | ---: | ---: | :--- |
| Engincering | 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 | NUMBER | \% OF APPLIED | NUMBER | \% OF APPLIED | \% OF ACCEPTED |
| :--- | :---: | :---: | :---: | :---: | :---: |
| APPLIED | ACCEPTED | ACCEPTED | ENROLLED | ENROLLED | ENROLLED |


| Asian | 54 | 25 | $46 \%$ | 15 | $28 \%$ | $60 \%$ |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Black | 127 | 45 | $35 \%$ | 40 | $31 \%$ | $89 \%$ |
| Hispanic | 36 | 0 | 0 | $25 \%$ | 6 | $17 \%$ |
| Indian | 644 | - | 0 | - | $67 \%$ |  |
| White | 640 | 354 | $55 \%$ | 272 | $42 \%$ | $77 \%$ |
| Male | 221 | 323 | $50 \%$ | 257 | $40 \%$ | $80 \%$ |
| Female | 110 | $50 \%$ | 76 | $34 \%$ | $69 \%$ |  |

Source: Office of the Registrar

| NUMBER | NUMBER | \% OF APPLIED | NUMBER | \% OF APPLIED | \% OF ACCEPTED |
| :--- | :---: | :---: | :---: | :---: | :---: |
| APPLIED | ACCEPTED | ACCEPTED | ENROLLED | ENROLLED | ENROLLED |

72
645
166
80
963
$42 \%$
$57 \%$
$55 \%$
$56 \%$
$55 \%$

| $31 \%$ | $73 \%$ |
| :--- | :--- |
| $40 \%$ | $70 \%$ |
| $39 \%$ | $71 \%$ |
| $44 \%$ | $78 \%$ |
| $39 \%$ | $71 \%$ |

$36 \%$
$51 \%$
$49 \%$
$55 \%$
$50 \%$

| 16 | $23 \%$ | $64 \%$ |
| ---: | ---: | ---: |
| 243 | $40 \%$ | $78 \%$ |
| 57 | $36 \%$ | $72 \%$ |
| 46 | $47 \%$ | $85 \%$ |
| 362 | $39 \%$ | $77 \%$ |

# Graduate <br> Admissions 

## GRADUATE ADMISSIONS, FALL QUARTERS 1984-88

| YEAR \& COLLEGE | NUMBER APPLIED | NUMBER ACCEPTED | \% OF APPLIED ACCEPTED | NUMBER <br> ENROLIED | \% OF APPLIED | \% OF ACCEP 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\% |

Source: Office of the Registrar

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

| High School Ma | Freshmen Matriculating | High School | Frashmen 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, Wamer 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 GA | A |
| 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 | A 8 | Woodward Academy, College Park GA | 5 |

Source: Office of the Registrar

## Financial

Assistance
SUMMARY OF MAJOR PROGRAMS OF STUDENT FINANCIAL ASSISTANCE

|  | 1986-87 |  | 1987-88 |  |
| :---: | :---: | :---: | :---: | :---: |
|  | NUMBER OF | AMOUNT OF | NUMBER OF | AMOUNT OF |
|  | 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
380

Total Amount of Scholarships
\$2,400,000

Source: Office of the Commanding Officer, Navy ROTC

## Financial <br> 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 theirPreliminary 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.

[^1]> Private industry, businesses, foundations, and individuals, as well as state and federal governments, provide a wide spectrum of scholarship, grant, loan, and work awards for deserving Georgia Tech students. During the 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.

# 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, otheradministrators, students, and members of the faculty.

Prior to enrolling at Georgia Tech, the President's Scholars have established excellentacademic and civic records through participation in a variety of extracurricular and honors programs. Many of the Scholars have been recognized in the Govemor'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, andGeorgia 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.

Awardsmade 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).

[^2]Source: Office of the Associate VicePresident

| Numerical |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Rank | Institute | Type | 83-84 | 84-85 | 85-86 | 86-87 | 87-88 |
| 1987-88 |  |  |  |  |  |  |  |
| 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 Enrollment |  | Achlevement Scholars |  | e of Class |  |
|  | GEORGIA TECH | 1,756 |  | 16 |  |  |  |
|  | University of Texas | 6,208 |  | 22 |  |  |  |

FRESHMAN NATIONAL MERIT SCHOLARS, 1983-88

| Numerical Rank 1987-88 | Institute | Type | 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 <br> Enrollment | Merit <br> Scholars | Percentage of <br> Freshman Class |
| :---: | :---: | :---: | :---: |
| GEORGIA TECH | $\mathbf{1 , 7 5 6}$ | 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 <br> Scholarship Program

SEVEN YEAR SUMMARY OF ENTERING FRESHMEN

|  | Mean | Mean | Georgia |  | Out-of-State |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | HSA | SAT | Male | Female | Male | Female |  |
| 1988-89 ${ }^{\text {a }}$ | 3.9 | 1429 | 32 | 13 | 28 | 7 | 80 |
| 1987-88 ${ }^{\text {b }}$ | 3.9 | 1434 | 35 | 11 | 19 | 3 | 68 |
| 1986-87 ${ }^{\text {c }}$ | 3.9 | 1428 | 36 | 8 | 23 | 2 | 69 |
| 1985-86 ${ }^{\text {d }}$ | 3.9 | 1437 | 32 | 8 | 20 | 3 | 63 |
| 1984-85 ${ }^{\circ}$ | 3.9 | 1432 | 25 | 10 | 7 | 2 | 44 |
| 1983-84 ${ }^{4}$ | 3.9 | 1418 | 15 | 7 | 5 | 0 | 27 |
| 1982-838 | 3.9 | 1425 | 8 | 3 | 2 | 1 | 14 |
| 1981-82 ${ }^{\text {b }}$ | 3.9 | 1465 | 5 | 1 | 0 | 0 | 6 |
| Program Total/ <br> Averages (1981-1988) | 3.9 | 1429 | 188 | 61 | 104 | 18 | 371 |

*States represented: AL, CT, FL, GA, IN, KY, MD, NC, NY, OH, PA, SC, TN, TX, VA
${ }^{\text {b }}$ States represented: AL, FL, GA, KY, MS, NC, OH, SC, TN
'States represented: AK, AL, CT, FL, GA, MA, MD, MS, NC, SC, TN, VA
${ }^{\text {d }}$ States represented: AL, FL, GA, IL, MS, NC, OH, SC, TN, WV
${ }^{\circ}$ States represented: AL, CA, FL, GA, KY, LA, SC, TN, VA, WI
'States represented: AL, FL, GA, SC
${ }^{8}$ States represented: GA, NC
${ }^{\text {n }}$ States represented: GA

GRADUATES OF THE PRESIDENT'S SCHOLARSHIP PROGRAM

|  | Majors | Georgia |  | Out-of-State |  | Highest Honor | $\begin{gathered} \text { High } \\ \text { Honor } \end{gathered}$ | Honor | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Male |  | Male |  |  |  |  |  |
| 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 <br> IE, ME, Phys, Psy | 14 | 5 | 3 | 1 | 9 | 8 | 4 | 23 |

Source: President's Scholarship Committee

## COSALS

| Biology | 1 |
| :--- | :--- |
| Chemistry | 1 |
| Information \& Computer Science | 3 |
| Mathematics | 2 |
| Physics | 2 |
| Undecided | 2 |

Total

MANAGEMENT -

ARCHITECTURE 1

| 3 | 2 | 1 | 2 |
| :---: | :---: | :---: | :---: |
| 3 | - | 1 | 1 |
| 5 | 7 | 5 | 1 |
| 1 | 1 | 4 | 2 |
| 5 | 7 | 3 | 5 |
| 2 | 1 | 4 | 5 |
| $\mathbf{1 9}$ | $\mathbf{1 8}$ | $\mathbf{1 8}$ | $\mathbf{1 6}$ |

2

## 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 | - | 1 | 1 |
| Health Physics | - | 1 | - | - | - |
| Industrial and Systems | - | - | - | - | 1 |
| Industrial | - | - | 2 | - | 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 |

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'Onotrio Graduate Fellowship, and tuitionwaivers.


## PRESIDENT'S MINORITY <br> 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 <br> 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

Financial Assistance

program enables these students to prepare themselves for outstanding careers in the disciplines of their choice. President's Fellowships provide stipends, which supplement other supportoffered 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 VicePresident for Graduate Sudies and Research

[^3]


ENROLLMENT BY RESIDENCY CLASSIFICATION, BY STATES, FALL QUARTER 1988

|  | Total | Male | Undergrad Female | nority | Male | Graduate Female | Minority |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Alabama | 284 | 174 | 52 | 43 | 51 | 7 | 5 |
| Alaska | 8 | 6 | 0 | 0 | 2 | 0 | 0 |
| Arizona | 11 | 4 | 1 | 2 | 6 | 0 | 1 |
| Arkansas | 26 | 17 | 2 | 2 | 6 | 1 | 0 |
| Califomia | 84 | 22 | 5 | 11 | 51 | 6 | 9 |
| Colorado | 21 | 8 | 4 | 2 | 8 | 1 | 1 |
| Connecticut | 58 | 40 | 7 | 1 | 11 | 0 | 1 |
| Delaware | 18 | 10 | 4 | 2 | 4 | 0 | 2 |
| District of Columbia | 9 | 4 | 1 | 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 |
| lllinois | 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 | 78 | 50 | 12 | 2 | 15 | 1 | 0 |
| Louisiana | 81 | 38 | 14 | 11 | 24 | 5 | 6 |
| Maine | 6 | 2 | 1 | 0 | 3 | 0 | 0 |
| Maryland | 167 | 103 | 31 | 25 | 29 | 4 | 8 |
| Massachusctus | 64 | 38 | 8 | 3 | 15 | 3 | 2 |
| Michigan | 36 | 18 | 6 | 3 | 8 | 4 | 5 |
| Minnesota | 11 | 3 | 1 | 0 | 6 | 1 | 0 |
| Mississippi | 36 | 21 | 5 | 5 | 9 | 1 | 0 |
| Missouri | 41 | 19 | 7 | 8 | 13 | 2 | 2 |
| Montana | 5 | 4 | 0 | 0 | 1 | 0 | 0 |
| Nebraska | 3 | 1 | 0 | 0 | 2 | 0 | 0 |
| Nevada | 7 | 2 | 2 | 0 | 3 | 0 | 1 |
| New Hampshire | 14 | 6 | 2 | 0 | 5 | 1 | 1 |
| New Jersey | 144 | 104 | 14 | 9 | 18 | 8 | 3 |
| New Mexico | 6 | 0 | 1 | 0 | 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 | 0 |
| Ohio | 121 | 66 | 13 | 12 | 39 | 3 | 7 |
| Oklahoma | 11 | 7 | 0 | 1 | 4 | 0 | 0 |
| Oregon | 6 | 2 | 0 | 1 | 3 | 1 | 0 |
| 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 | 2 | 0 |
| Vermont | 10 | 8 | 2 | 1 | 0 | 0 | 0 |
| Virginia | 172 | 108 | 20 | 16 | 33 | 11 | 7 |
| Washington | 17 | 7 | 1 | 0 | 8 | 1 | 1 |
| West Virginia | 18 | 13 | 0 | 2 | 4 | 1 | 0 |
| Wisconsin | 17 | 9 | 1 | 0 | 5 | 2 | 0 |
| Wyoming | 2 | 2 | 0 | 0 | 0 | 0 | 0 |
| Other U.S. Territories \& Possessions |  |  |  |  |  |  |  |
| Guam | 2 | 2 | 0 | 0 | 0 | 0 | 0 |
| Pucrto Rico | 83 | 49 | 9 | 55 | 17 | 8 | 24 |
| Virgin Islands | 6 | 4 | 1 | 4 | 0 | 1 | 1 |
| TOTAL | 10,963 | 6,900 | 2,101 | 1,288 | 1,537 | 425 | 290 |

[^4]
## Enrollment by Georgia Counties

## Georgia



## Enrollment by

|  | Undergraduate | Graduate | Total |  | Undergraduate | Graduate | Total |  | Undergraduate | Graduate | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appling | 7 | 0 | 7 | Evans | 6 | 0 | 6 | Newton | 21 | 1 | 22 |
| Aikinson | 0 | 0 | 0 | Fannin | 9 | 1 | 10 | Oconee | 4 | 1 | 5 |
| Bacon | 1 | 0 | 1 | Faycte | 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 | 37 | 1 | 38 | Gilmer | 3 | 1 | 4 | Pike | 2 | 0 | 2 |
| Ben Hill | 4 | 0 | 4 | Glascock | 0 | 0 | 0 | Polk | 21 | 0 | 21 |
| Berrien | 5 | 1 | 6 | Glynn | 41 | 3 | 44 | Pulaski | 6 | 0 | 6 |
| Bibb | 132 | 7 | 139 | Gordon | 26 | 0 | 26 | Putnam | 9 | 0 | 9 |
| Bleckley | 5 | 0 | 5 | Grady | 8 | 1 | 9 | Quitman | 1 | 0 | 1 |
| Brantley | 0 | 0 | 0 | Greenc | 5 | 0 | 5 | Rabun | 10 | 3 | 13 |
| Brooks | 1 | 0 | 1 | Gwinnett | 548 | 77 | 625 | Randolph | 4 | 0 | 4 |
| Bryan | 4 | 0 | 4 | Habersham | 16 | 1 | 17 | Richmond | 143 | 20 | 163 |
| Bulloch | 23 | 1 | 24 | Hall | 57 | 4 | 61 | Rockdale | 89 | 6 | 95 |
| Burke | 4 | 0 | 4 | Hancock | 0 | 0 | 0 | Schley | 2 | 0 | 2 |
| Butts | 6 | 1 | 7 | Haralson | 11 | 1 | 12 | Screven | 6 | 0 | 6 |
| Calhoun | 4 | 0 | 4 | Harris | 8 | 0 | 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 | 0 | 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 | 0 | 0 |
| Chattahoochee | ce 0 | 0 | 0 | Jasper | 3 | 0 | 3 | Tattrall | 13 | 0 | 13 |
| Chattooga | 15 | 0 | 15 | Jeff Davis | 4 | 1 | 5 | Taylor | 2 | 0 | 2 |
| Cheroke | 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 | 222 | 17 | 239 | Jones | 18 | 1 | 19 | Tift | 23 | 0 | 23 |
| Clinch | 1 | 0 | 1 | Lamar | 12 | 1 | 13 | Toombs | 13 | 1 | 14 |
| Cobb | 797 | 158 | 955 | Lanier | 0 | 0 | 0 | Towns | 1 | 1 | 12 |
| Coffee | 7 | 0 | 7 | Laurens | 12 | 2 | 14 | Treutlen | 0 | 0 | 0 |
| Colquitt | 6 | 0 | 6 | Lee | 10 | 1 | 11 | Troup | 31 | 2 | 33 |
| Columbia | 77 | 2 | 79 | Liberty | 15 | 1 | 16 | Tumer | 2 | 0 | 2 |
| Cook | 4 | 0 | 4 | Lincoln | 3 | 0 | 3 | Twiggs | 3 | 0 | 3 |
| Coweta | 39 | 2 | 41 | Long | 1 | 0 | 1 | Union | 5 | 1 | 6 |
| Crawford | 5 | 0 | 5 | Lowndes | 37 | 7 | 44 | Upson | 19 | 0 | 19 |
| Crisp | 7 | 4 | 11 | Lumpkin | 4 | 0 | 4 | Walker | 19 | 2 | 21 |
| Dade | 1 | 0 | 1 | Macon | 5 | 0 | 5 | Walton | 20 | 2 | 22 |
| Dawson | 1 | 0 | 1 | Madison | 5 | 0 | 5 | Ware | 14 | 2 | 16 |
| Decatur | 13 159 | 0 | 13 | Marion | 0 | 0 | 0 | Warren | 2 | 1 | 1 |
| DeKalb | 1,159 | 214 | 1,373 | McDuffie | 15 | 0 | 15 | Washington | 8 | 0 | 8 |
| Dodge | 4 | 0 | 4 | McIntosh | 4 | 0 | 4 | Wayne | 6 | 1 | 7 |
| Dooly | 4 | 0 | 4 | Meriwether | 5 | 1 | 6 | Webster | 0 | 0 | 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 |

jource: Office of the Registrar

## ENROLLMENT BY CLASS, FALL 1988



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 | 31 | 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 | ,108 | 812 | 112 |

## ENROLLMENT BY CLASS, FALL QUARTERS 1984-88



Undergraduate

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| 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 |
| Spccial 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 |
| Spccial 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 |

Source: Office of the Registrar

# Enrollment <br> Profile 

## UNDERGRADUATE ENROLLMENT PROFILE BY COLLEGE, FALL QUARTER 1988

|  | Aslan | Black, Non-Hispanic | Hispanic | American Indian | White | Nonresident |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| College | M F | M F | M F | M F | M F | M F |

Architecture

| Architecture | 12 | 8 | 12 | 7 | 6 | 5 | 0 | 0 | 250 | 110 | 6 |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Building Construction | 1 | 0 | 4 | 0 | 1 | 1 | 0 | 0 | 67 | 9 | 0 |
| Industrial Design | 1 | 3 | 4 | 0 | 0 | 0 | 0 | 0 | 49 | 28 | 0 |
| Undeclared Architecture | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 2 | 2 |
| Total | 14 | 11 | 20 | 7 | 7 | 6 | 0 | 0 | 370 | 149 | 8 |

Engineering

| Acrospace | 32 | 1 | 9 | 2 | 8 | 2 | 0 | 0 | 411 | 65 | 8 | 2 |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Ccramic | 4 | 0 | 9 | 1 | 3 | 0 | 0 | 0 | 34 | 9 | 2 | 0 |
| Chemical | 14 | 5 | 21 | 26 | 5 | 7 | 0 | 0 | 252 | 83 | 7 | 1 |
| Civil | 9 | 4 | 20 | 12 | 17 | 1 | 0 | 0 | 0 | 351 | 66 | 17 |
| Electrical | 156 | 24 | 112 | 46 | 38 | 4 | 3 | 0 | 1,088 | 122 | 50 | 7 |
| Eng. Sci. \& Mechanics | 1 | 0 | 3 | 2 | 6 | 0 | 0 | 0 | 0 | 59 | 8 | 2 |
| Industrial and Systems | 27 | 13 | 45 | 40 | 39 | 6 | 0 | 2 | 492 | 245 | 30 | 2 |
| Materials | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 2 | 0 | 0 |
| Mechanical | 53 | 9 | 47 | 13 | 30 | 4 | 1 | 0 | 923 | 98 | 24 | 2 |
| Nuclear Eng. \& Health Phys.11 | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 80 | 16 | 2 | 0 |  |
| Textiles | 0 | 0 | 2 | 3 | 0 | 0 | 0 | 0 | 12 | 12 | 0 | 0 |
| Textile Chemistry | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 13 | 2 | 1 | 0 |
| Textile Enginecring | 4 | 0 | 3 | 3 | 1 | 2 | 1 | 0 | 30 | 22 | 1 | 0 |
| Undeclared Enginecring | 27 | 7 | 22 | 16 | 7 | 0 | 0 | 1 | 361 | 89 | 8 | 2 |
| Total | 340 | 63 | 294 | 165 | 155 | 27 | 6 | 3 | 4,111 | 839 | 152 | 17 |

Management

| Economics | 1 | 0 | 0 | 2 | 3 | 1 | 0 | 0 | 36 | 8 | 0 | 0 |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | :--- | :--- | ---: | ---: | ---: | ---: |
| Management | 12 | 9 | 73 | 29 | 12 | 6 | 0 | 1 | 739 | 384 | 8 | 1 |
| Management Science | 2 | 2 | 1 | 2 | 2 | 0 | 0 | 0 | 22 | 19 | 1 | 0 |
| Undeclared Management | 2 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 55 | 47 | 0 | 0 |
| Total | 17 | 12 | 75 | 33 | 17 | 8 | 0 | 1 | 852 | 458 | 9 | 1 |

## Sciences and Liberal Studies

Biology
Chemistry
Inform. \& Computer Sci.
Mathematics
Physics
Psychology
Undeclared COSALS
Total
INSTITUTE TOTALS
Source: Office of the Registrar



| American <br> Incian <br> $M$$\quad$ W | White | Nonresident |
| :--- | :--- | :--- | :--- |

Architecture

|  | 7 | 3 | 7 | 3 | 7 | 4 | 0 | 1 | 97 | 45 | 14 |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Architecture | 6 | 3 | 1 | 3 | 1 | 1 | 0 | 0 | 28 | 9 | 8 |
| City Planning | 13 | 6 | 8 | 6 | 8 | 5 | 0 | 1 | 125 | 54 | 22 |

Engineering

| Acrospace | 52 | 1 | 3 | 0 | 1 | 0 | 0 | 0 | 98 | 7 | 72 | 1 |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Ccramic | 3 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 8 | 1 | 2 | 2 |
| Chemical | 9 | 3 | 2 | 5 | 2 | 0 | 1 | 0 | 44 | 12 | 17 | 4 |
| Civil | 36 | 1 | 8 | 2 | 12 | 4 | 0 | 0 | 93 | 8 | 59 | 3 |
| Elcctrical | 119 | 14 | 19 | 8 | 15 | 6 | 1 | 0 | 365 | 44 | 125 | 9 |
| Environmental | 10 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 15 | 4 | 9 | 0 |
| Eng. Sci. \& Mechanics | 7 | 4 | 1 | 0 | 1 | 0 | 0 | 0 | 4 | 4 | 7 | 4 |
| Health Systems | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| Industrial and Systems | 40 | 5 | 5 | 5 | 10 | 6 | 0 | 0 | 101 | 28 | 57 | 8 |
| Materials | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 |
| Mechanical | 57 | 2 | 6 | 5 | 4 | 0 | 1 | 0 | 130 | 18 | 58 | 4 |
| Mctallurgy | 10 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 16 | 3 | 12 | 1 |
| Nuclear Eng. \& Health Phys.17 | 0 | 4 | 0 | 9 | 0 | 0 | 0 | 43 | 6 | 28 | 1 |  |
| Textiles | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 0 |
| Tcxtile Chemistry | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 |
| Tcxtilc Engincering | 6 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 8 | 4 | 8 | 0 |
| Total | 372 | 33 | 49 | 25 | 61 | 17 | 3 | 0 | 930 | 139 | 460 | 38 |

Management

| Management | 16 | 3 | 4 | 1 | 12 | 1 | 0 | 0 | 96 | 40 | 35 | 5 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Total | 16 | 3 | 4 | 1 | 12 | 1 | 0 | 0 | 96 | 40 | 35 | 5 |

## Sciences and Liberal Studies

| Biology | 7 | 5 | 1 | 1 | 0 | 1 | 0 | 0 | 14 | 10 | 8 | 6 |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Chemistry | 13 | 6 | 3 | 1 | 1 | 4 | 0 | 0 | 46 | 22 | 15 | 8 |
| Gcophysical Sciences | 13 | 5 | 2 | 1 | 4 | 0 | 0 | 0 | 34 | 9 | 16 | 5 |
| Inform. \& Computer Sci. | 26 | 5 | 1 | 3 | 5 | 3 | 0 | 0 | 103 | 34 | 31 | 8 |
| Mathematics | 5 | 1 | 0 | 2 | 1 | 0 | 1 | 0 | 44 | 14 | 9 | 1 |
| Physics | 20 | 2 | 1 | 1 | 0 | 1 | 0 | 0 | 56 | 5 | 29 | 2 |
| Psychology | 1 | 2 | 0 | 0 | 0 | 1 | 0 | 0 | 30 | 31 | 0 | 3 |
| Technology \& Sci. Policy | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 33 | 8 | 2 | 0 |
| Total | 85 | 26 | 9 | 10 | 12 | 10 | 1 | 0 | 360 | 133 | 110 | 33 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| INSTITUTE TOTALS | 486 | 68 | 70 | 42 | 93 | 33 | 4 | 1 | 1,511 | 366 | 627 | 85 |

Source: Office of the Registrar

# Undergraduate Enrollment 

FALL QUARTER UNDERGRADUATE ENROLLMENT, BY COLLEGE, 1984-1988
1984
Male 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 |
| $\quad$ 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 |
| Enginearing Science \& Mechanics | 83 | 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 |
| $\quad$ 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 (COSALS)

| 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 |
| $\quad$ 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 |
|  |  | 8,730 | 8,806 | 8,940 |  | 9,105 |  | 9,213 |  |  |

FALL QUARTER UNDERGRADUATE ENROLLMENT BY COLLEGE, 1984-1988


## Graduate Enrollment

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

Fall Quarter 1978
Fall Quarter 1979
Fall Quarter 1980
Fall Quarter 1981
Fall Quarter 1982
Fall Quarter 1983
Fall Quarter 1984
Fall Quarter 1985
Fall Quarter 1986
Fall Quarter 1987
Fall Quarter 1988

| Architecture <br> M.S. |  |  |  | Ph.D. | Engineering |  | Management |  | COSALS |  | Total |  |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | :---: | :---: | :---: |
|  |  |  | Ph.D. | M.S. | Ph.D. | M.S. | Ph.D. | M.S. | Ph.D. |  |  |  |
| 174 | 0 | 657 | 181 | 135 | 1 | 284 | 155 | 1,250 | 337 |  |  |  |
| 215 | 0 | 765 | 190 | 118 | 1 | 312 | 160 | 1,410 | 351 |  |  |  |
| 220 | 0 | 867 | 205 | 124 | 2 | 335 | 163 | 1,546 | 370 |  |  |  |
| 221 | 1 | 856 | 236 | 111 | 8 | 342 | 162 | 1,530 | 407 |  |  |  |
| 213 | 3 | 867 | 253 | 141 | 9 | 326 | 163 | 1,547 | 428 |  |  |  |
| 232 | 7 | 903 | 261 | 157 | 15 | 291 | 188 | 1,583 | 471 |  |  |  |
| 224 | 9 | 946 | 292 | 118 | 5 | 316 | 219 | 1,604 | 525 |  |  |  |
| 217 | 9 | 979 | 314 | 124 | 7 | 301 | 238 | 1,621 | 568 |  |  |  |
| 217 | 12 | 1,071 | 416 | 158 | 9 | 313 | 284 | 1,759 | 721 |  |  |  |
| 217 | 17 | 1,034 | 538 | 167 | 11 | 307 | 319 | 1,725 | 885 |  |  |  |
| 205 | 18 | 925 | 671 | 156 | 14 | 271 | 349 | 1,557 | 1,052 |  |  |  |

*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
Total Ph.D.
Z
Total Masters

# Graduate Enrollment 

FALL QUARTER GRADUATE ENROLLMENT, BY COLLEGE, 1984-1988

| 1984 | 1985 | 1986 |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Male | 1987 |  | 1988 |  |
| 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 | 36 | 16 |
| $\quad$ TOTAL ARCHITECTURE | 159 | 75 | 157 | 71 | 168 | 66 | 169 | 67 | 154 | 72 |

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 |
| Electrical | 336 | 34 | 412 | 43 | 480 | 61 | 500 | 72 | 519 | 72 |
| Environmental Engineering | 17 | 5 | 12 | 9 | 14 | 10 | 19 | 7 | 27 | 4 |
| Engincering Science \& Mechanics | 19 | 5 | 16 | 3 | 19 | 4 | 13 | 4 | 13 | 8 |
| Industrial and Systems | 126 | 35 | 103 | 35 | 126 | 43 | 154 | 44 | 156 | 44 |
| Mechanical | 193 | 11 | 219 | 12 | 252 | 12 | 210 | 22 | 198 | 26 |
| Metallurgy | 28 | 1 | 31 | 0 | 26 | 3 | 28 | 6 | 27 | 4 |
| Nuclear \& Health Physics | 77 | 18 | 57 | 7 | 57 | 12 | 63 | 11 | 73 | 6 |
| Textiles | 5 | 1 | 3 | 3 | 7 | 1 | 4 | 2 | 3 | 0 |
| Textile Chemistry | 4 | 2 | 6 | 1 | 5 | 0 | 8 | 1 | 5 | 0 |
| Texile Engineering | 6 | 1 | 8 | 3 | 9 | 1 | 12 | 2 | 16 | 4 |
| $\quad$ 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 |
| $\quad$ TOTAL MANAGEMENT | 109 | 31 | 103 | 40 | 127 | 42 | 142 | 41 | 128 | 45 |

SCIENCES \& LIBERAL STUDIES (COSALS)

| 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 |  |  |  |  |  |  |  |  |  |  |

Source: Office of the Registrar

FALL QUARTER GRADUATE ENROLLMENT BY COLLEGE, 1984-1988



Source: Office of the Registrar

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

*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 BY COLLEGE |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { LOWER } \\ & \text { DIVISION } \end{aligned}$ | UPPER DIVISION | GRADUATE DIVISION | TOTAL |
| Architecture |  |  |  |  |
| 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 |

* 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.
** 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 | DIVISION | 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 |

Source: Office of the Registrar

## 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 programalternate between industrial assignments and classroom studies on a quarterly basis, completing the same course work on the campus that is completed by regular fouryear 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 todevelop 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 companiesparticipate 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 Rayonier, 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

## NUMBER OF CO-OP STUDENTS BY MAJOR: Spring Quarter 1988

| Aerospace Engineering | 128 | Management | 170 |
| :--- | ---: | :--- | :--- | ---: |
| Biology | 11 | Materials Engineering | 4 |
| Ceramic Engineering | 15 | Mathematics | 11 |
| Chemical Engineering | 167 | Mechanical Engineering | 407 |
| Chemistry | 12 | Nuclear Engineering | 26 |
| Civil Engineering | 125 | Physics | 31 |
| Electrical Engineering | 746 | Textile Engineering | 18 |
| Engineering Science and Mechanics | 17 | Undecided Engineering College | 5 |
| Health Physics | 3 | Undecided Management College | 1 |
| Industrial and Systems Engineering | 297 |  |  |
| Information and Computer Science | 178 | Total | 2,372 |

## COOPERATIVE DIVISION SIX-YEAR COMPARISON

|  | $1982-83$ | $1987-88$ | $\%$ Increase |
| :--- | ---: | ---: | ---: |
|  |  |  |  |
|  |  |  |  |
| Cumulative Enrollment | 2,483 | 3,032 | $22 \%$ |
| Student Graduates | 342 | 374 | $9 \%$ |

## Cooperative <br> 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 Coop 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

| 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 Participation |  |  |  |  |  |
| 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 | - | - | 0 | 0 | 2 |
| TASP | - | - | 0 | 0 | 4 |
| TEXT | 0 | 0 | 2 | 2 | 4 |
| TOTAL | 20 | 70 | 108 | 148 | 306 |

## ARMY <br> 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 priorenrollment in the ROTC program. These scholarships pay tuition and all academic-related fees plus $\$ 100$ per month while the student is enrolled in Military Science. Approximately seventy-five Army ROTC cadets today are under full tuition Army scholarships. Students enrolled in Army ROTC, both scholarship and

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

## 

## 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 $\$ 100$ permonth subsistence payment. Nonscholarship Tech students may enroll in the NROTC College Program and compete for scholarships providing up to $31 / 2$ 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

## 



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

| College | 1983-84 | 1984-85 | 1985-86 | 1986-87 | 1987-88 |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | BACHELOR'S |  |  |  |  |
| SCIENCES AND LIBERAL STUDIES (COSALS) |  |  |  |  |  |
| Applied Biology | 12 | 11 | 16 | 22 | 24 |
| Applied Physics | 27 | 15 | 21 | 22 | 26 |
| 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 | 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 | 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 | 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 |
| Total | 1,315 | 1,243 | 1,193 | 1,083 | 1,062 |

Source: Office of the Registrar

|  |  |  |  | Avarded |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 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 |
| Gcophysical 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 | - | - | 1 | 1 |
| Total | 113 | 113 | 127 | 121 | 147 |
| MANAGEMENT |  |  |  |  |  |
| Statistics | - | - | 1 | - | - |
| Industrial Management | 42 | 14 | - | $\overline{50}$ | $\overline{7}$ |
| 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 |  |  |  |  |  |
| Acrospace | 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 |
| Engincering 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 | - | - |
| 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 |
| Textule Engineering | 7 | 4 | 1 | 2 | 8 |
| Textiles | - | 1 | - | 1 | 2 |
| Total | 426 | 442 | 451 | 487 | 509 |

Source: Office of the Registrar

| Deg |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Amal | - |  |  |  |  |
| College | 1983-84 | 1984-85 | 1985-86 | 1986-87 | 1987-88 |
|  |  | PH.D.'s |  |  |  |
| SCIENCES AND LIBERAL STUD | SALS) |  |  |  |  |
| 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 | - | - | - | - | 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 |  |  |  |  |  |
| Master's | 256 | 275 | 322 | 349 | 338 |
| Doctorate | 82 | 55 | 61 | 59 | 78 |
| Total | 4 | 1 | 1 | 1 | 2 |
|  | 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 | 1,844 | 1,789 | 1,787 | 1,709 | 1,705 |
| Bachelor's | 694 | 678 | 710 | 735 | 800 |
| Master's | 2,622 | 2,532 | 2,580 | 2,532 | 2,602 |
| Doctorate |  |  | 83 | 87 |  |
| Total |  |  |  |  |  |

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

Total number of bachelor's degrees granted
Total number of master's degrees granted
Total number of Ph.D. degrees granted
Total number of degrees granted

61,946
15,021
1,762
77,645

Source: Office of the Registrar


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

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 Republic) $) 0$ | 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 |  |  |  |

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 entries by county) | 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 | $\&$ Possessions |  |  |
| Mississippi | 8 | 3 | 0 | Guam | 0 | 0 | 0 |
| Missouri | 4 | 2 | 1 |  | Puerto Rico | 7 | 6 |
| Montana | 0 | 1 | 0 | Virgin Islands | 2 | 0 | 0 |
| Nebraska | 0 | 0 | 0 |  |  |  |  |

[^5]
## 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 | 1 | 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 |
| Chattahoochee | 0 | 0 | 0 | Jasper | 1 | 0 | 0 | Tatmall | 0 | 1 | 0 |
| Chattooga | 1 | 0 | 0 | Jeff Davis | 1 | 0 | 0 | Taylor | 0 | 0 | 0 |
| Cherokee | 14 | 1 | 0 | Jefferson | 1 | 0 | 0 | Telfair | 0 | 0 | 0 |
| Clarke | 9 | 5 | 0 | Jenkins | 0 | 0 | 0 | Terrell | 0 | 0 | 0 |
| Clay | 1 | 0 | 0 | Johnson | 0 | 0 | 0 | Thomas | 3 | 1 | 0 |
| Clayton | 47 | 6 | 0 | Jones | 3 | 0 | 0 | Tift | 3 | 1 | 0 |
| Clinch | 0 | 0 | 0 | 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 | 0 |
| Cook | 0 | 0 | 0 | Lincoln | 0 | 0 | 0 | Twiggs | 0 | 0 | 0 |
| Coweta | 8 | 0 | 0 | Long | 0 | 0 | 0 | Union | 0 | 0 | 0 |
| Crawford | 2 | 0 | 0 | Lowndes | 6 | 1 | 0 | Upson | 2 | 0 | 0 |
| Crisp | 1 | 0 | 0 | Lumpkin | 0 | 0 | 0 | Walker | 5 | 1 | 0 |
| Dade | 0 | 0 | 0 | Macon | 1 | 0 | 0 | Walton | 2 | 0 | 0 |
| Dawson | 1 | 0 | 0 | Madison | 1 | 0 | 0 | Ware | 1 | 0 | 0 |
| 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 |
| Dougherty | 16 | 5 | 0 | Miller | 0 | 0 | 0 | Wheeler | 0 | 0 | 0 |
| Douglas | 18 | 1 | 0 | Mitchell | 0 | 0 | 0 | White | 1 | 0 | 0 |
| Early | 1 | 0 | 0 | Monroe | 0 | 0 | 0 | Whitfield | 15 | 2 | 0 |
| Echols | 0 | 0 | 0 | Montgomery | 0 | 0 | 0 | Wilcox | 0 | 0 | 0 |
| Effingham | 4 | 0 | 0 | Morgan | 0 | 0 | 0 | Wilkes | 1 | 0 | 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 | of the | egistrar |  |  |  |  |  | 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 careerobjectives 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 theemployment 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 <br> Organizations

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

Top Recruiting 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 Gencral
Rockwell International
Kimberly Clark
Noxell Corp.
GTE
Dow Chemical
Hewlett-Packard
Northrop
Southern Bell
Babcock \& Wilcox
Union Carbide
Ford
Lockheed
Wrangler
E-Systems
Wakins-Johnson
Georgia Power
York
Intel
Westvaco
Hughes
Tennessee Eastman
Chevron
Honeywell

Top Hiring Organizations
IBM
Georgia Tech Milliken
Florida Power and Light
Gcorgia Power
McDonnell Douglas
Schlumberger
General Dynamics
AT\&T
Ford
General Electric
Kurt Salmon \& Assoc.
Martin Marictta
Mobil
Procter \& Gamble
Southern Bell
United Technologies
Alcoa
Arthur Andersen \& Co.
Bell Northern Research
Campus Crusade for Christ
Chevron
Ciba-Geigy
Coca-Cola
Compaq
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

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

|  | $1987-1988$ <br> Average/ \# Offers |  |
| :--- | ---: | ---: |
|  |  |  |
| Overall | $\$ 2,372 /$ | 805 |
| Bachelor's | $\$ 2,248 /$ | 605 |
| Master's | $\$ 2,658 /$ | 187 |
| Ph.D. | $\$ 3,634 /$ | 13 |

## 1986-1987 <br> Average/ \# Offers

## BY COLLEGE

## Overall <br> Average/\# Offers

Architecture Enginecring Management COSALS
$\begin{array}{lr} & 0 \\ \$ 2,652 / & 645 \\ \$ 2,359 / & 81 \\ \$ 2,501 / & 79\end{array}$

$$
\begin{array}{lr}
\$ 2,248 / & 605 \\
\$ 2,658 / & 187 \\
\$ 3,634 / & 13
\end{array}
$$

| $\$ 2,426 /$ | 764 | $-2.3 \%$ |
| :--- | ---: | ---: |
| $\$ 2,293 /$ | 582 | $-2.0 \%$ |
| $\$ 2,726 /$ | 159 | $-2.6 \%$ |
| $\$ 3,714 /$ | 23 | $-2.2 \%$ |

Master's
Average/\# Offers

|  | 0 | 0 |  |
| ---: | ---: | ---: | ---: |
| $\$ 2,663 /$ | 122 | $\$ 3,275 /$ | 12 |
| $\$ 2,756 /$ | 26 |  | 0 |
| $\$ 2,630 /$ | 39 | $\$ 4,292 /$ | 1 |

Ph.D. Average/\# Offers
$\$ 4,292$ -

## BY MAJOR

High
Low
Average/ \# Offers
Major
Aerospace Engineering
Bachelor's
Master's
Ph.D.
Biology
Bachelor's
Chemical Engineering
Bachelor's
Master's
Ph.D.
Chemistry
Bachelor's
Master's

Civil Engineering
Bachelor's
Master's
Electrical Engineering Bachelor's
Master's
Ph.D.

CHANGE
.

## Starting Salaries

| Engineering Science and Mechanics |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Bachelor's | \$2,585 | \$2,542 | \$2,563/ | 2 |
| Geophysical Sciences |  |  |  |  |
| 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 $\$ 2,430$ ( $\$ 2,430$ ( |  |  |  |  |
| 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 <br> 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 <br> Reporting | Accepted <br> Employment | Graduate <br> School | Entering <br> Military | Continuing <br> Search |
| :--- | ---: | ---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| September 1987 Graduates |  |  |  |  |  |

December 1987 Graduates

| 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 | $(17 \%)$ |
| $\quad$ Total | 72 | 52 | $(72 \%)$ | 5 | $(7 \%)$ | 3 | $(4 \%)$ | 12 | $(17 \%)$ |


| Architecture | 0 | 0 | (0\%) | 0 | (0\%) | 0 | (0\%) | 0 | (0\%) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Enginecring | 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 Graduates |  |  |  |  |  |  |  |  |  |
| Architecture | 7 | 7 | (100\%) | 0 | (0\%) | 0 | (0\%) | 0 | (0\%) |
| Enginecring | 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\%) |
| Total 1987-1988 Graduates |  |  |  |  |  |  |  |  |  |
| 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

# Chairs and Professorships <br> NAME OF CHAIR OR PROFESSORSHIP 

DEPARTMENT, SCHOOL, OR COLLEGE

## In the College of Sciences and Liberal Studies:

| Julius Brown Chair | - |
| :--- | :--- |
| Vasser Wooley Chair | Herbert O. House |
| IBM Distinguished Professorship | - |
| Melvin Kranzberg Professorship in History of Technology | Bruce Sinclair |
| Southern Bell Telephone and Telegraph Company Professorship <br> in Communications Policy | - |

## NAME OF CHAIR OR PROFESSORSHIP

CHAIR HOLDER
DEPARTMENT,
SCHOOL, OR COLLEGE
In the College of Engineering:

Fuller E. Callaway Chair
A. Russell Chandler III Chair for Distinguished Faculty
Coca-Cola Chair in Material Handling and Distribution

Eugene C. Gwaltney, Jr. Chair in Manufacturing Systems
Julian T. Hightower Chair in Engineering
B. Mifflin Hood Professorship in Materials Engineering
J. Erskine Love, Jr. Institute Chair in Engineering

Parker H. Petit Chair for Engineering in Medicine (Healthdyne)
David S. Lewis Chair
John O. McCarty/Audichron Chair
Byers Eminent Scholars Chair in Microelectronics
Julius Brown Chair
Georgia Power Distinguished Professorship
Georgia Power Distinguished Professorship
Joseph M. Pettit Chair

| John L. Lundberg | College of Engineering |
| :--- | :--- |
| George L. Nemhauser | College of Engineering |
| Ellis L. Johnson | College of Engineering |
| John A. White | College of Engineering |
| - | College of Engineering |
| Alan T. Chapman | College of Engineering |
| - | College of Engineering |
| Robert M. Nerem | College of Engineering |
| - | Aerospace Engineering |
| Ronald W. Schafer | Electrical Engineering |
| Carl M. Verber | Electrical Engineering |
| Thomas K. Gaylord | Electrical Engineering |
| Ajeet Rohatgi | Electrical Engineering |
| Roger P. Webb | Electrical Engineering |
| - | Electrical Engineering |


|  | Chairs and |  |
| :---: | :---: | :---: |
|  | 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 |  |  |

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

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

Source: Office of the Associate Vice-President

5 Carnegie-Mellon University; Case Western Reserve University; Indiana University,


DISTRIBUTION BY HIGHEST DEGREE

| College | Doctorate |  | Specialist |  | Master's |  | Bachelor's / |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | ther |  |  |  |
|  | \# | \% |  |  | \# | \% | \# | \% |  | \# | \% |
| 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 Male | Black Female | White Female | Other <br> 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 |

* Includes only those persons with academic rank; does not include academic administrators.

Source: Office of the Associate Vice-President

# Faculty 

Profile

## FULL-TIME INSTRUCTIONAL FACULTY <br> PROFILE BY UNIT* (As of June 1988) distribution by sex, percent tenured, and percent doctorates

|  | Total \# |  | Professor |  | Associate Professor |  | Assistant | Instructor |  | Percent | Percent |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Protessor |  |  |  |  |  |  |
| UNIT | M | F |  |  | M | F | M | F |  |  |  | M | F |

College of Engineering

| Aerospace Engineering | 26 | - | 16 | - | 5 | - | 4 | - | - | - | $50.0 \%$ |
| :--- | ---: | :--- | ---: | :--- | ---: | :--- | ---: | :--- | :--- | :--- | :--- |
| Materials Engineering | 10 | - | 6 | - | 2 | - | 2 | - | - | - | $50.0 \%$ |
| Chemical Engineering | 19 | 1 | 9 | - | 9 | - | 1 | 1 | - | - | $78.9 \%$ |
| Civil Engineering | 38 | - | 17 | - | 12 | - | 9 | - | - | - | $71.1 \%$ |
| Electrical Engineering | 56 | - | 27 | - | 11 | - | 18 | - | - | - | $58.9 \%$ |
| Industrial \& Systems Eng. | 35 | 3 | 15 | - | 13 | - | 7 | 3 | - | - | $68.4 \%$ |
| Mechanical Engineering | 43 | 2 | 17 | - | 10 | - | 16 | 2 | - | - | $46 \%$ |
| Nuclear Engineering | 12 | - | 8 | - | 2 | - | 2 | - | - | - | $5.7 \%$ |
| Textile | 10 | - | 4 | - | 3 | - | 3 | - | - | - | $58.3 \%$ |

College of Sciences and Liberal Studies

| Biology | 11 | - | 2 | - | 5 | - | 4 | - | - | - | 45.5\% | 100.0\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Chemistry | 27 | - | 22 | - | 3 | - | 2 | - | - | - | 85.2\% | 100.0\% |
| English | 19 | 15 | 4 | 3 | 7 | 5 | 5 | 2 | 3 | 5 | 55.9\% | 70.6\% |
| Geophysical Sciences | 12 | - | 8 | - | 4 | - | - | - | - | - | 91.7\% | 100.0\% |
| Information \& Computer Sys. | 19 | - | 4 | - | 5 | - | 10 | - | - | - | 42.1\% | 94.7\% |
| Mathematics | 37 | - | 15 | - | 18 | - | 4 | - | - | - | 78.4\% | 91.9\% |
| Modern Languages | 4 | 5 | - | - | 2 | 1 | 1 | 3 | 1 | 1 | 44.4\% | 78.8\% |
| Physical Ed. \& Recreation | 3 | 3 | - | - | 2 | - | 1 | 1 | - | 2 | 50.0\% | 33.3\% |
| Physics | 25 | 1 | 16 | - | 5 | - | 4 | 1 | - | - | 65.4\% | 100.0\% |
| Psychology | 13 | - | 6 | - | 5 | - | 2 | - | - | - | 61.5\% | 100.0\% |
| Social Sciences | 16 | 3 | 5 | - | 9 | 3 | 2 | - | - | - | 78.9\% | 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 | - | - | 46.7\% | 100.0\% |
| TOTAL FOR INSTITUTE | 507 | 40 | 226 | 3 | 159 | 11 | 117 | 18 | 5 | 8 | 61.1\% | 90.1\% |
| Percentage of Total | 92.7 | 7.3 | 41.3 | 0.5 | 29.1 | 2.0 | 21.4 | 3.3 | 0.9 | 1.5 |  |  |

*Includes only those persons with academic rank; does not include academic administrators.
Source: Office of the Associate Vice-President


* Includes only those persons with academic rank.
** Includes only those part-lime 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.

Source: Office of the Associate Vice-President

# RESEARCH PERSONNEL PROFILE <br> (As of 30 September 1988) 

## RESEARCH FACULTY

|  | DISTRIBUTION BY RANK |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Principal E/S $/$ //Ad | $\begin{array}{r} \text { Senior } \\ E / S / T / A \end{array}$ | Research II E/S/T/A | Research I E/ST/A | Postdoctoral Fellows | Total |
| Full-Time GTRI | 79 | 198 | 206 | 180 | 3 | 666 |
| Full-Time Academic ${ }^{\text {a }}$, | 15 | 47 | 66 | 63 | 25 | 217 |
| Part-Time GTRI ${ }^{\text {b }}$ | 10 | 13 | 6 | 3 | 0 | 32 |
| Part-Time Academic ${ }^{\text {c }}$ | 1 | 5 | 3 | 2 | 1 | 12 |
| Total ${ }^{\circ}$ | 105 | 263 | 281 | 248 | 29 | 927 |

DISTRIBUTION BY HIGHEST DEGREE

|  | Doctorate | First Professional ${ }^{\text { }}$ | Ed. Spec/」 Master's | Bachelor's | Other | $\begin{array}{r} \text { No } \\ \text { Degree } \end{array}$ | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Full-Time GTRI | 117 | 2 | 339 | 197 | 5 | 6 | 666 |
| Full-Time Academic ${ }^{\text {a }}$, | 89 | 2 | 61 | 55 | 4 | 6 | 217 |
| Part-Time GTRI ${ }^{\text {b }}$ | 12 | 0 | 10 | 8 | 1 | 1 | 32 |
| Part-Time Academic | 7 | 1 | 4 | 0 | 0 | 0 | 12 |
| Total ${ }^{\text {c }}$ | 225 | 5 | 414 | 260 | 10 | 13 | 927 |
|  | DISTRIBUTION BY RACE AND SEX |  |  |  |  |  |  |
|  | Black Male | White Male | Other Male | Black <br> Female | White <br> Female | Other Female | Total |
| Full-Time GTRI | 7 | 577 | 10 | 3 | 67 | 2 | 666 |
| Full-Time Academic ${ }^{\text {a }}$, | 3 | 165 | 21 | 2 | 21 | 5 | 217 |
| Part-Time GTRI ${ }^{\text {b }}$ | 0 | 29 | 1 | 0 | 2 | 0 | 32 |
| Part-Time Academic ${ }^{\text {c }}$ | 1 | 5 | 6 | 0 | 0 | 0 | 12 |
| Total ${ }^{\text {c }}$ | 11 | 776 | 38 | 5 | 90 | 7 | 927 |

## GRADUATE RESEARCH ASSISTANTS

$\begin{array}{ll}\text { Part-Time GTRI }^{\text {b }} & 110 \\ \text { Part-Time Academic }^{c} & 821 \\ \text { Total } & 931\end{array}$

- Includes OCA
${ }^{\text {b }}$ Includes Hourly, Alien, and Adjunct Personnel
${ }^{\text {c }}$ Includes Visiting/Adjunct Personnel
${ }^{d}$ Engineer/Scientist/Technologist/Associate
${ }^{-}$Includes one Non-research titled Professional
${ }^{\text {f }}$ Includes J.D.'s and M.D's
Source: Office of the Executive Vice-President


## RESEARCH PERSONNEL PROFILE BY UNIT

(As of 30 September 1988)
Research
Faculty

Visiting \& Adjunct Research Faculty

Postdoctoral Fellows

GRAs
Total
Engincering College

Aerospace Engincering
Chemical Engineering
Civil Engineering
Electrical Engincering
Engincering Science and Mechanics
Industrial and Systems Engineering
Materials Engineering
Mechanical Engincering
Textile Engineering
Architecture
COSALS
Biology
Chemistry
English
Geophysical Sciences
Information and Computer Sciences
Mathematics
Physics
Psychology
Social Sciences
Management
Advanced Technology Development Center
Continuing Education
Corporate Relations
Nuclear Research Center
Office of Computing Scrvices
Office of Contract Administration (GTRI \& RI)
Office of Interdisciplinary Programs
Office of Minority Educational Development
Office of the President
Radiation Safety
Vicc-President Research
Subtotal

| Georgia Tech Research Institute | 663 |
| :--- | :---: |

3
10

| 0 | 0 | 1 | 6 |
| :---: | :---: | :---: | :---: |
| 0 | 2 | 69 | 90 |
| 0 | 3 | 39 | 43 |
| 1 | 0 | 47 | 65 |
| 0 | 0 | 132 | 151 |
| 0 | 0 | 0 | 1 |
| 0 | 0 | 55 | 57 |
| 0 | 2 | 33 | 37 |
| 0 | 5 | 119 | 133 |
| 0 | 0 | 11 | 12 |
| 1 | 0 | 41 | 50 |
| 0 | 0 | 0 | 0 |
| 1 | 0 | 8 | 9 |
| 1 | 9 | 45 | 64 |
| 0 | 0 | 0 | 0 |
| 1 | 0 | 32 | 44 |
| 0 | 0 | 41 | 52 |
| 0 | 0 | 7 | 7 |
| 0 | 3 | 31 | 42 |
| 0 | 0 | 24 | 24 |
| 0 | 0 | 8 | 8 |
| 0 | 0 | 46 | 47 |
| 0 | 0 | 0 | 9 |
| 0 | 0 | 0 | 1 |
| 0 | 0 | 1 | 1 |
| 0 | 0 | 6 | 11 |
| 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 22 |
| 2 | 2 | 24 | $\mathrm{f}_{57}$ |
| 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 1 |
| 0 | 0 | 1 | 3 |
| 0 | 0 | 0 | 3 |
| 7 | 26 | 821 | $\mathrm{f}_{1,050}$ |
| 3 | 3 | 110 | 779 |
| 10 | 29 | 931 | $\mathrm{f}_{1,829}$ |

${ }^{\text {a }} 1$ shared from GTRI
${ }^{b} 1$ shared to GTRI
${ }^{c} 2$ shared from GTRI
$\mathrm{d}_{2}$ shared to GTRI
e 9 shared from GTRI
fincludes 1 non-research titled
Source: Office of the Executive Vice-President

## TOTAL EMPLOYEE PROFILE

(As of January 1988)

| EEO |  |
| :--- | :--- |
| Code | Category |
| 1 | Executive, Administrative, Managerial |
| 2 | Faculty-Academic $^{\text {b }}$ |
| 3 | Research Faculty \& Other Professionals |
| 4 | Clerical and Secretarial |
| 5 | Technical and Para-Professional |
| 6 | Skilled Crafts |
| 7 | Service and Maintenance |
|  | 1988 TOTAL |


| White <br> Male |  | Black <br> Female |  | Male | Female | Other a |  |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  |  |  |  |  | Male |  | Female |
| 162 | 56 | 10 | 5 | 0 | 1 | 172 | 62 |
| 481 | 70 | 8 | 7 | 48 | 0 | 537 | 77 |
| 714 | 252 | 17 | 39 | 18 | 2 | 749 | 293 |
| 44 | 352 | 38 | 183 | 2 | 9 | 84 | 544 |
| 252 | 140 | 32 | 26 | 11 | 4 | 295 | 170 |
| 118 | 5 | 50 | 2 | 1 | 0 | 169 | 7 |
| 35 | 6 | 144 | 65 | 3 | 0 | 182 | 71 |
| 1,806 | 881 | 299 | 327 | 83 | 16 | 2,188 | 1,224 |

${ }^{\star}$ Includes Hispanic, Asian, and Native Americans.
${ }^{\text {b/Includes librarians. }}$
Source: Work Force Analysis

Total Employee Profile by EEO Category


## Employee Profile

Employee Profile by EEO Category


## Employee <br> Profile

Employee Profile by EEO Category


## GENERAL INFORMATION

## 1988-89

FACT

## BOOK

Fees
MATRICULATION AND NONRESIDENT TUITION FEES
Fall Quarters 1979-1988


Nonresident
圈 Matriculation

| YEAR | MATRICULATION FEE <br> (Resident and Nonresident) | NONRESIDENT <br> TUITION FEE | TOTAL NONRESIDENT FEE <br> (Matriculation and Tuition) |
| :--- | ---: | ---: | ---: |
| $1979-80$ | $\$ 185.00$ |  | $\$ 574.00$ |
| $1980-81$ | 195.00 | $\$ 389.00$ | 625.00 |
| $1981-82$ | 236.00 | 430.00 | 786.00 |
| $1982-83$ | 285.00 | 650.00 | 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 | $1,234.00$ | $1,740.00$ |

1988-89

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: |  |  |  |  | $1,530.00$ |
| Dormitory Room Rent | $1,155.00$ | $1,230.00$ | $1,353.00$ | $1,444.00$ | $1,950.00$ |
| Board (Estimate) | $1,725.00$ | $1,800.00$ | $1,890.00$ | $1,950.00$ | $1,155.00$ |
| Miscellaneous (books, supplies, personal) | 975.00 | $1,050.00$ | $1,107.00$ | $1,155.00$ | $\$ 6,531.00$ |

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

SQUARE FOOTAGE BY FUNCTIONAL AREA FALL 1988

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

| Social and Cultural Development | 329,816 |
| ---: | :--- |
| Counseling and Career Guidance | 5,320 |
| Student Support | 780,010 |
| Total | $1,115,146$ |

## INSTITUTIONAL SUPPORT

Executive Management
Fiscal Operations
General Administration Services
Logistical Services
Physical Plant Operations
Logistical Services
Physical Plant Operations
Faculty and Staff Services
Community Relations
Total
Community Relations
Total
13,216
28,307
20,900
21,581
75,122
7,700
11,858
178,684
INDEPENDENT OPERATIONS
Outside Agencies
Investment Property
95,816
15,495

UNASSIGNED
Scheduled for Renovation
89,076
BUILDING SERVICES
Circulation, Mechanical, Construction, Custodial
$1,701,388$

GRAND TOTAL $4,978,672$

## 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 feebased 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 OffCampus 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 OfficerStandards and Training Council and receive professional training on a continuous basis. The Campus Police can be reached at telephone number 8942500.

## 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 <br> 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 fullservice Post Office.

## Georgia Tech Bookstore

The Georgia Tech Bookstore is an institutionally owned and operated facility with a staff of thirtyfive 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

## 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


# Social Fraternities 



|  | 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

## 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
Organization
Blueprint
Chorale
DramaTech
Erato
Gcorgia Tech Ycllow Jacket Band
Pep Band
Concert Band
Jazz Ensemble
The Technique
WREK Radio

## Organization

ANAK
Briarcan Society I
Briarcan Socicty II
Gamma Beta Phi Socicty
Golden Key National Honor Socicty
Lambda Sigma
Omicron Delta Kappa
Order of Omega
Phi Eta Sigma
Phi Kappa Phi
Tau Beta Pi Association

## STUDENT GOVERNING ORGANIZATIONS <br> Purpose

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
Georgia Tech's annual
Performs sacred works and popular contemporary music
Theatrical performances
A student publication of art, poetry, prose, and photography
Performs at football games
Performs at basketball games
Light concert performances during winter and spring
Performance-oriented jazz group
Student-run newspaper
Georgia Tech's twenty-four hour a day radio station

## HONOR SOCIETIES

## Purpose

Honor
Promotes high scholarship among Co-op students
Recognizes academic achievement of Co-op students
Encourages scholastic effort and rewards academic merit
Recognizes scholastic achicvement and excellence in all undergraduate fields
Alpha Kappa Chapter, promotes leadership, scholarship, and fellowship among sophomores
Alpha Eta Circle, promotes leadership
Promotes leadership of fratemity and sorority members
Freshman Honorary Socicty
Recognizes superior scholarship in all fields of study
Georgia Alpha Chapter, honors academic achievements and exemplary character

## DEPARTMENT HONORARIES

 PurposeIndustrial enginecring<br>Biology<br>Business and management<br>Civil engincering<br>Chemical engineering<br>Beta Mu Chapter, electrical engineering<br>Promotes the existence and welfare of the band<br>Ceramic industries<br>Mathematics<br>National Honorary Mechanical Engineering Fratemity<br>Acronautical engineering<br>Physics<br>Promotes and serves the Georgia Tech Band

## DEPARTMENT AND PROFESSIONAL SOCIETIES

## Organization

Alpha Kappa Psi
American Assoc. of Textile Chemists \& Colorists Ceramic Society

American Chemical Society
American Institute of Aeronautics \& Astronautics
American Institute of Architects
American Institute of Chemical Engineers
American Institute of Industrial Engineers

American Marketing Association
American Nuclear Society

American Society of Civil Engineers ASHRAE

American Society of Mechanical Engineers
Amold Air Society
Association for Computing Machinery

Association for Industrial Design Students
Georgia Society of Professional Engineers
Graduate Students in Management
Honorary Accounting Organization
Institute of Electrical \& Electronic Engineers
Pre-Medical Society
Planning Society
Society for Advancement of Management

Society of Automotive Engineers

Society of Black Engineers
Society of Hispanic Professional Engineers
Society of Physics Students
Society of Women Engineers

Student Construction Association
Student Planning Association

## Purpose

Professional business fratemity for IM's and IE's
New processes in textile manufacture
Furthers ceramic science, technology, and developments
Provides professional and personal services to chemical and chemical engineering majors
Promotes student/industry relations in aerospace engineering
Provides student link to the practice of architecture and those professionals involved
Strives to build leadership and communication skills
Encourages industrial engineering awareness on campus and the professional development of industrial engineers
Fosters research in the field of marketing
Provides a professional society dedicated to the discussion of policy issues affecting nuclear and radiation protection and other related issues
Provides professional, social, and academic development activities
Science and professions relating to heating, refrigeration engineering
Opportunities and responsibilities of mechanical engineering
Develops leadership and dedication in AFROTC cadets
Promotes and increases knowledge of science, design, development, construction, languages, and applications of modern computing machinery
Promotes field of industrial design
Student Chapter, open to all engineering students
Serves as a focal point for graduate management activities
Recognizes excellence in the field of accountancy
Provides means for student involvement in electrical engineering
Promotes interest in health professions and assists students with career information
Promotes Graduate City Planning Program
Conducts and promotes scientific study of the principles goveming organized effort in industrial and economic life
Advances the arts, sciences, standards, and engineering practices connected with the design and utilization of self-propelled mechanisms, prime movers, and related equipment

Fosters the recruitment, retention, and career development of minorities in engineering
Promotes scholarship and assists Hispanic students in acquiring scholarships
Advances and diffuses knowledge of physics
Professional service organization aimed toward informing women engineering students of opportunities open to them

Promotes the building construction program
Promotes city planning programs and student interest with faculty

Alpha Phi Omega-Gamma Zeta Chapter Angel Flight
Cheerleading Squad
Circle K
Co-op Club Section I

Afro-American Association
Chinese Students' Club
French Club
Hellenic Society
Baptist Student Union
The Branches
Campus Crusade for Christ
Canterbury Association
Catholic Center
Christian Science College Organization
Fellowship of Christian Athletes

Ballet Club
College Bowl Team
Cosmic Order of Psi Phi
Chess Club

Disc Association

Barbell Club
Bowling Club
Fencing Club
Hockey Club
Judo Club
Karate Club

Source: Division of Student Affairs

Co-op Club Section II
Freshman Council
Phi Psi Fraternity
Ramblin' Reck Club

## CULTURAL ORGANIZATЮNS

India Club
International Folk Dancers
Korean Student Association
League of Latin American Citizens
Lebanon Club

## RELIGIOUS ORGANIZATONS

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

## SPECIAL INTERESTS ORGANIZATIONS

Executive Round Table
Health Physics Society
Musicians Network

## RECREATION CLUBS

## Flying Club

Radio Club

## SPORTS CLUBS

| Lacrosse Club | Sport Parachute Club |
| :--- | :--- |
| Rowing Club | Volleyball Club |
| Rugby Club | Water Ski Club |
| Sailing Club | Women's Soccer Club |
| Soccer Club | Women's Swimming Club |

Reckettes
"T" Club
Young Democrats of Georgia
World Student Fund

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

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

Objectivist Society
Ranger Company

Scuba Jackets
Table Tennis Club

Women's Swimming Club

## Athletic

Association
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 (wholater 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, eightlosses), and forty-fourAll-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); EdHamm (trackworld recordholder 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

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-


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 46,000seat 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

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 |
| Indoor Track | Buddy Fowlkes | 13 |
| Tennis | Rick Davison | 18 |
| Track | Buddy Fowlkes | 8 |
| Volleyball | Judy Sackfield | 18 |

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 atax-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)


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 | 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. |
| :--- | :--- | :--- |
| J. Thomas Gresham | Vice-President | President, Callaway Foundation, Inc. |
| Cecil R. Phillips | Vice-President | Vice-President for Development, Georgia Tech |
| Robert H. Ferst | Treasurer | Consultant |
| John H. Weitnauer, Jr. | Assistant Treasurer | Retired, Chairman and CEO Richway |
| Patrick J. McKenna | Secretary | Georgia Tech Foundation |
| Mary E. Stoffregen | Director, Accounting | Accounting and Administration, Georgia Tech |

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

Robert E. Cannon<br>Thomas J. Malone<br>Donald S. Pirkle

Cecil R. Phillips

John Patrick Crecine
E. Earl Patton, Jr.

Jack Thompson
Cecil Phillips
James E. Murphy III
Homer Rice
Arthur Howell, Jr. Susan Phinney

Bobby Joe Anderson
Lawton M. Nease III Oliver H. Sale, Jr. Shirley Mewborn John C. Staton, Jr.
H. Hammond Stith, Jr. John B. Carter, Jr. Cecil Phillips
Chairman
Vice-Chairman
Immediate Past Chairman
Acting Secretary

President, Proctor \& Gamble Cellulose
President, Milliken and Company
VP \& General Manager, Chemicals \& Metals Department, Dow Chemical USA
Acting Vice-President for Communications and Development, Georgia Tech

## Alexander-Tharpe Fund, Inc. Roster

President President, Georgia Tech
Vice-President
VP \& Executive Director
Secretary
Treasurer
Athletic Director
Attorney
Director

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

| President | President, Puritan Churchill Chemical Company |
| :--- | :--- |
| Past President | President, Lawton M. Nease and Associates, Inc. |
| President-Elect/Treasurer | Chairman of the Board, Fesco Retec, Inc. |
| Vice-President, Activities | Vice-President, Southern Engineering Company |
| Vice-President, | Parter, King \& Spalding |
| Communications |  |
| Vice-President, Roll Call | President, Stith Equipment Company |
| Vice-President | VP \& Executive Director, Georgia Tech Alumni Assoc. |
| Vice-President for | Acting Vice-President, Communications and Development, |
| Development | Georgia Tech |

Past President President, Lawton M. Nease and Associates, Inc.
President-Elect/Treasurer Chairman of the Board, Fesco Retec, Inc.
Vice-President, Activities Vice-President, Southern Engineering Company
Vice-President,
Communications
Vice-President, Roll Call
Vice-President
Vice-President for
Development

Chairman of the Board and CEO, The Patton Corporation
VP and Executive Director, Alexander-Tharpe Fund, Inc.
Vice-President for Development, Georgia Tech
Alexander-Tharpe Fund, Inc.
Executive Assistant to the President and
Director of Athletics, Georgia Tech
Alston and Bird
Alexander-Tharpe Fund, Inc.

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

Alumni Association

The Georgia Tech Alumni Association was chartered in June 1908. The Association is a not-forprofit organization whose policies, goals, and objectives are guided by a Board of Trustess consisting of thirtysix 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

| Employer | Number Employed |
| :--- | ---: |
|  |  |
| AT\&T Bell Labs | 71 |
| AT\&T Technologies | 71 |
| Alabama Power Co. | 30 |
| Alcoa | 75 |
| Allied-Signal Inc. | 44 |
| American Cyanamid Co. | 25 |
| American T\&T | 171 |
| American Airlines | 25 |
| Army Corps of Engineers | 98 |
| Arthur Andersen \& Co. | 105 |
| Atlanta Gas Light Co. | 59 |
|  |  |
| Babcock \& Wilcox | 52 |
| Bell South Corp. | 30 |
| Bell Telephone Labs | 33 |
| Bellsouth Services | 62 |
| Bethlehem Steel Corp. | 26 |
| Bocing | 86 |
| Buckeye Cellulose | 37 |
| Burlington Industries | 48 |
|  |  |
| C\&S National Bank | 52 |
| Celanese Corp. | 45 |
| Chevron USA Inc. | 37 |
| City of Atlanta | 31 |
| Coca-Cola Co. | 117 |
| Coca-Cola USA | 28 |
| Combustion Engineering | 39 |
| Conoco Inc. | 29 |
| Control Data Corp. | 34 |
| Coming Glass Works | 30 |
| Delta Airlines |  |
| Department of Defense | 224 |
| Dept. Transportation | 49 |
| Digital Equipment Corp. | 43 |
| Douglas Aircraft | 43 |
| Dow Chemical | 32 |
| Duke Power Co. | 80 |
| DuPont Co. | 97 |
|  | 34 |
| E.I. DuPont |  |
| E. Systems Inc. | 485 |
| Eastern Airlines | 43 |
| Ebasco Services Inc. | 76 |
| Electromagnetic Sci. | 31 |
| Emory University | 30 |
| Environmental Protection Agency | 32 |
| Ethyl Corp. | 45 |
| Exxon Co. USA | 27 |
| Exxon Corp. | 32 |
|  | 66 |
| FAA |  |
| Federal Reserve Bank | 43 |
| First National Bank | 32 |
| Florida Power \& Light Co. | 219 |
| Ford Motor Co. |  |
|  |  |


| Frito-Lay Inc. | 33 |
| :---: | :---: |
| General Dynamics | 161 |
| General Electric Co. | 390 |
| General Motors | 122 |
| Georgia Power Co. | 540 |
| Georgia State Univ. | 42 |
| Georgia Tech | 710 |
| Georgia Tech Research Inst. | 133 |
| Goodyear T\&R Co. | 30 |
| Harris Corp. | 98 |
| Hercules Inc. | 84 |
| Hewlett-Packard Co. | 106 |
| Honeywell Inc. | 68 |
| Hughes Aircraft Co. | 63 |
| IBM Corp. | 619 |
| International Paper Co. | 31 |
| Jordan Jones | 26 |
| Kimberly Clark Corp. | 98 |
| Kurt Salmon Assoc. | 31 |
| LTV Aerospace Corp. | 26 |
| Law Engineering Testing | 31 |
| Lockheed Aircraft | 61 |
| Lockheed Corp. | 38 |
| Lockheed Georgia Co. | 540 |
| Lockheed Missiles | 29 |
| Lockwood Greene Engineering | 35 |
| Management Science Amer. | 35 |
| Martin Marietta Corp. | 165 |
| McDonnell Douglas | 159 |
| Mead Corp. | 25 |
| Medical College of Georgia | 39 |
| Merrill Lynch PFS | 64 |
| Milliken \& Co. | 119 |
| Mobil Oil Corp. | 57 |
| Monsanto Co. | 98 |
| Motorola Inc. | 95 |
| NASA | 192 |
| NCR Corp. | 54 |
| Northern Telecom. | 38 |
| Northrop Corp. | 39 |
| Oglethorpe Power Co. | 27 |
| Owens Corning Fiberglass | 34 |
| Oxford Industries | 25 |
| Pan American World Airways | 28 |
| Phillips Petroleum Co. | 28 |
| Pratt \& Whitney Aircraft | 97 |
| Printpack Inc. | 28 |
| Procter \& Gamble | 227 |

RCA ..... 43
Raytheon Co. ..... 34
Reynolds Metals Co. ..... 48
Robins Air Force Base ..... 26
Rockwell International ..... 140
Schlumberger ..... 45
Scientific Atlanta ..... 97
Sears Roebuck \& Co. ..... 26
Shaw Industries Inc. ..... 48
Shell Oil Co. ..... 69
Simons Eastern Co. ..... 44
Southern Bell T\&T Co. ..... 242
South Central Bell ..... 31
Southern Company Services ..... 113
Southern Railway ..... 32
Southern Tech. ..... 33
Southwire Co. ..... 52
Square D Co. ..... 39
State of Georgia ..... 170
TRW Inc. ..... 73
Tennessee Eastman Co. ..... 75
Texaco Inc. ..... 56
Texas Instruments ..... 72
Trane Co. ..... 27
Trust Company Bank ..... 60
TVA ..... 122
U.S. Air Force ..... 614
U.S. Army ..... 393
U.S. Government ..... 101
U.S. Marine Corps ..... 58
U.S. Navy ..... 424
U.S. Postal Service ..... 39
U.S. Steel ..... 27
Union Camp Corp. ..... 67
Union Carbide Corp. ..... 101
UNISYS ..... 54
United Technologies ..... 28
University of Alabama ..... 36
University of California ..... 34
University of Georgia ..... 25
University of Tennessee ..... 33
Warner Robins A.L.C. ..... 50
West Point Pepperell ..... 40
Western Electric Co. ..... 89
Westinghouse Electric ..... 189
Xerox Corp. ..... 28

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 Comers 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 |
| Chatanooga | 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 |





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 | Tennessec | 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 |  |  |
| Kentucky | 393 | Oklahoma | 182 |  |  |
| Louisiana | 735 | Oregon | 74 |  |  |

NUMBERS OF LIVING ALUMNI BY CLASS YEAR*

| YEAR | NUMBER OF ALUMNI | YEAR | NUMBER OF ALUMNI | YEAR | NUMBER OF ALUMNI | Year | NUMBER OF |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1907 | 1 | 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 | 1973 | 1,572 |
| 1914 | 5 | 1934 | 242 | 1954 | 624 | 1974 | 1,609 |
| 1915 | 7 | 1935 | 199 | 1955 | 637 | 1975 | 1,416 |
| 1916 | 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 | 2,260 |
| 1923 | 57 | 1943 | 469 | 1963 | 867 | 1983 | 2,194 |
| 1924 | 62 | 1944 | 173 | 1964 | 1,000 | 1984 | 2,202 |
| 1925 | 78 | 1945 | 203 | 1965 | 1,018 | 1985 | 2,291 |
| 1926 | 104 | 1946 | 256 | 1966 | 955 | 1986 | 2,243 |
|  |  |  |  |  |  | 1987 | 2,238 |

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

## Alumni <br> 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.
Bumham 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
Franklin Mint
GTE Sylvania Inc.
Gainesville College
General Motors

Georgia Kaolin Company<br>Georgia Pacific Corporation<br>Georgia Power Company<br>Gold Kist Inc.<br>Golden Flake Inc.<br>Goodwill Industries<br>Great Dane Trailers<br>Hanes Hosiery Inc.<br>Harris Corporation<br>Hayes Microcomputer<br>Healthdyne Inc.<br>Heery International Inc.<br>Hercules Inc.<br>Holiday Inns Inc.<br>Honeywell Inc.<br>Hughes Aircraft Company

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 Extension. The Environment, Health, and Safety Division of GTRI's Economic Development Laboratory, for example, sponsors courses, conferences, and 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 <br> 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 TrainingFacility. 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 Analysis. The primary 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 andnoncredit 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 | 53 | 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 |
| * This table represents all public service activity officially reported to Education Extension Services, in addition to programs sponsored by the department. <br> Includes the Canal Zone, Puerto Rico, and Virgin Islands |  |  |  |  |  |  |

## Industrial <br> Education

Industrial Education, part of Tech to individual firms when 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
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
training activities have included workshops on supervisory skill development. Other workshopshave 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

| Six-Year Summary of In-Plant Classes Administered and Conducted by Industrial Education |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 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 for faculty, students, and 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, inconjunction 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. A number of the larger facilities are managed by the Office of Computing Services (OCS), which offers facilities management support to the campus as a whole, and which, in addition, is responsible for the operation of alarge 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. These clusters contain Apple MacIIs, IBM PS/2s, Sun $3 / 60 \mathrm{~s}$, 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 modembanks 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 <br> 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 computerassisted 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 expertsystems, 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
- toprovideinformation 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

[^6]
## FINANCES

## 1988-89

## FACT BOOK



FINANCIAL DATA-REVENUES: REVENUE BY SOURCE


| Resident Instruction | $\$ 19,859,392$ |
| :--- | ---: |
| Eng Ext Division | $1,599,587$ |
|  |  |
| Total | $\$ 21,458,979$ |

ENDOWMENT INCOME
Resident Instruction
Ga Tech Research Inst
Unexp Plant Funds

Total

| $\$ 521,000$ | $\$ 195,015$ |
| ---: | ---: |
| 868,246 | $1,344,222$ |
| $\$ 1,389,246$ | $\$ 1,539,237$ |

$\$ 37,252$
849,604
$\$ 886,856$

$$
\begin{array}{r}
\$ 47,000 \\
-646,369 \\
\$ 693,369
\end{array}
$$

\$161,500
$1,998,893$
$\$ 2,160,393$
GIFTS \& GRANTS

| Resident Instruction | $\$ 197,116$ |
| :--- | ---: |
| Eng Ext Division | 69,325 |
| Ga Tech Research Inst | - |
| Unexp Plant Funds | 353,469 |
| Total | $\$ 619,910$ |

INDIRECT COST RECOVERIES

## Resident Instruction

Ga Tech Research Inst
Adv Tech Dev Center
Eng Ext Division
Center for Rehab Tech
Total
OTHER SOURCES

| Resident Instruction | $\$ 686,901$ |
| :--- | ---: |
| Eng Ext Division | 1,247 |
| Ga Tech Research Inst | $2,644,290$ |
| Adv Tech Dev Center | 17,096 |
| Center for Rehab Tech | - |
| Unexp Plant Funds | $1,286,352$ |
| Total | $\$ 4,635,886$ |

STATE APPROPRIATION

| Resident Instruction | $\$ 45,898,963$ |
| :--- | ---: |
| Eng Ext Division | 628,382 |
| Ga Tech Research Inst | $5,989,241$ |
| Agricultural Research | 487,705 |
| Adv Tech Dev Center | 581,611 |
| Center for Rehab Tech | - |
| Unexp Plant Funds | 650,000 |
| Total | $\$ 54,235,902$ |


| $\$ 52,631,229$ | $\$ 57,057,829$ |
| ---: | ---: |
| 681,898 | 930,260 |
| $6,720,329$ | $7,690,274$ |
| 569,269 | 747,086 |
| 811,864 | 874,054 |
| - | 356,175 |
| 500,000 | 654,415 |
|  |  |
| $\$ 61,914,589$ | $\$ 68,310,093$ |

$\$ 61,943,256$
537,115
$8,880,861$
913,717
$1,018,518$
631,152
377,763

$\$ 74,302,382$
\$64,914,003 594,115
9,618,272 954,078
1,188,859
827,239
2,135,000
$\$ 80,231,566$

## Revenues

|  | 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 | 34,840 | 80,861 | 38,096 | 34,202 | 17,497 |
| Center for Rehab Tech | - | - | 373 | 84,178 | 37,855 |
| 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



目 Tuition \＆Fees 33.4
GT Foundation 4.8
圈 Indirect Cost 25.1
Z Other 9.7
$\square$ GTRC 3.2
State Appropriations 80.2
目 Student Activities 1.5
D Direct Sponsored 89.1
$\square$ Scholar．\＆Fellow． 5.0
$\square$ Auxiliary Enterprises 23.4
\％
GT Athletic Assn． 9.5

## Expenditures

## EXPENDITURES BY BUDGETARY FUNCTION

## INSTRUCTION

Resident Instruction
State
Sponsored Total Resident Instr

$$
\begin{array}{r}
\$ 25,997,299 \\
3,474,282 \\
\$ 29,471,581
\end{array}
$$

$\$ 28,072,207$
$3,611,054$
$\$ 31,683,261$

| $\$ 36,738,836$ | $\$ 41,459,466$ |
| ---: | ---: |
| $4,500,452$ | $5,199,546$ |
| $\$ 41,239,288$ | $\$ 46,659,012$ |

$\$ 43,045,916$
$5,801,665$
$\$ 48,847,581$
Eng Ext Division
State
Sponsored
Total Eng Ext Division

| $\$ 2,065,965$ | $\$ 2,409,499$ |
| ---: | ---: |
| $\$ 2,065,965$ | $\$ 2,409,499$ |
| $\$ 31,537,546$ | $\$ 34,092,760$ |


| $\$ 3,915,231$ | $\$ 3,980,135$ |
| ---: | ---: |
| 15,730 | 200,050 |
| $\$ 3,930,961$ | $\$ 4,180,185$ |
|  |  |
| $\$ 45,170,249$ | $\$ 50,839,197$ |

$\$ 4,561,525$
108,794
$\$ 4,670,319$

$\$ 53,517,900$

RESEARCH
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 | - | - | - | $\$ 419,550$ |  |
| State | - | - | - | $\$ 0$ | $\$ 30,714$ |
| Sponsored | - | - | - | $\$ 419,550$ | $\$ 30,714$ |

State Sponsored Total Resident Instr

Ga Tech Research Inst
State
Sponsored
Total GT Research Inst

Agricultural Research State

Eng Ext Division
State
Sponsored
Total Eng Ext Division
Adv Tech Dev Center Sponsored

Center for Rehab Tech Sponsored

Total Research
PUBLIC SERVICE
Resident Instruction

Total Resident Instr
Ga Tech Research Inst State
Sponsored
Total GT Research Inst
\$8,009,650
17,592,692
\$25,602,342
$\$ 15,627,304$
$36,537,223$
$\$ 52,164,527$
\$52,164,527
\$412,762
-
$\mathbf{4}, 676$
\$4,676


$\$ 78,184,307$
$\$ 80,582,303$
\$94,159,773
\$9,802,907
$17,642,552$
$\mathbf{\$ 2 7}, 445,459$
\$35,490,114
$\$ 17,296,570$
$35,332,522$
$\$ 52,629,092$
$\$ 21,081,359$
$36,765,918$

FY 1986-87
FY 1987-88
FY 1983-84
FY 1984-85
FY 1985-86

Sponsored
\$31,537,546
$\$ 34,092,760$
\$45,170,249
\$50,839,197
$\$ 53,517,900$
$\begin{array}{rr}\$ 14,289,574 & \$ 14,675,370 \\ 21,200,540 & 21,223,625\end{array}$
\$16,063,237
25,117,933
\$41,181,170
\$35,898,995
$\$ 20,623,494$
$44,356,245$
\$22,354,668
\$52,092,731
\$74,447,399
\$954,078

## Expenditures

|  | 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 | - | - | 373 | 81,150 | 37,855 |
| Total CRT | \$0 | \$0 | 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 Tech Dev Center |  |  |  |  |  |
| State | \$64,564 | \$96,673 | \$30,020 | \$52,900 | \$49,744 |
| Center for Rehab Tech |  |  |  |  |  |
| State | - | - | - | \$1,727 | \$3,647 |
| Total Institutional Support | \$22,534,365 | \$24,472,134 | \$15,538,531 | \$18,175,230 | \$19,431,114 |

## Expenditures

|  | EMPEMUITHMES |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 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 | - | - | - |
| 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 |

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

## Expenditures

## CONSOLIDATED EXPENDITURES BY FUNCTION Fiscal Year 1987－88：\＄283．0 Million



Instruction 47.6
（2）Public Service 1.8
－
Research 39.4
（ Student Services 3.2
$\square$ Plant 17.4
Academic Support 13.7
原
Institute Support 18.0
曻
Auxiliary Enterprises 20.1
$\square$
GT Athletic Assn． 10.8
$\square$ Other 16.9
目
Direct Sponsored 89.1
Scholar．\＆Fellow． 5.0

## 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 | c. 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\% |
|  |  | PPENDIT |  |  |  |  |

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, Inc | 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 contractagency. 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 otherresearch 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.

[^7]
# Research at Georgia Tech 

## 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 |
| $\quad$ 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 | $\$ 119,006,391$ |  |

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

RESEARCH SUMMARY FY 82-83/ FY 87-88

|  | FY 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 | $53,955,930$ |
| $\quad$ 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 |  |  |  |  |  |  |  |
| Architecture | 226 | $\$ 18,783,213$ | 247 | $\$ 17,836,180$ | 234 | $\$ 19,915,808$ |  |
| COSALS | 18 | 645,070 | 8 | 246,270 | 7 | 141,294 |  |
| Management | 128 | $9,795,005$ | 110 | $8,161,649$ | 130 | $9,714,653$ |  |
| Research Centers | 1 | 36,240 | 7 | 411,207 | 5 | 537,881 |  |
| GTRI | 67 | 915,019 | 30 | $1,571,846$ | 74 | $2,618,992$ |  |
| $\quad$ Total | 536 | $75,456,553$ | 539 | $60,264,658$ | 508 | $86,077,763$ |  |
|  | 976 | $\$ 105,631,100$ | 941 | $\$ 88,491,810$ | 958 | $\$ 119,006,391$ |  |

Source: Office of the Executive Vice-Presidemt

# Research <br> Summary 

RESEARCH SUMMARY BY UNIT, July 1987-June 1988
UNIT
College of Engineering
Aerospace
Chemical
Civil
Electrical
Engineering Science \& Mechanics
Industrial \& Systems
Material
Mechanical
Textile
Total

| PROPOSALS |  | AWARDS |  |
| ---: | ---: | ---: | ---: |
| Number | \$ Amount | Number | \$ Amount |
|  |  |  |  |
|  |  |  |  |
| 71 | $15,378,799$ | 41 | $3,357,316$ |
| 43 | $5,826,580$ | 12 | 561,906 |
| 71 | $24,091,967$ | 23 | 740,124 |
| 132 | $41,294,547$ | 57 | $9,528,000$ |
| - |  | - | 13 |
| 31 | $27,423,546$ | 17 | $1,208,091$ |
| 37 | $4,427,872$ | 66 | 785,950 |
| 154 | $51,691,936$ | 5 | $3,108,212$ |
| 11 | $1,772,164$ | 234 | $\$ 19,915,209$ |
| 550 | $\$ 171,907,411$ |  |  |

College of Sciences \& Liberal Studies (COSALS)

| Biology | 17 |
| :--- | ---: |
| Chemistry | 54 |
| English | 66 |
| Geoscience | 40 |
| Information \& Computer Science | 26 |
| Mathematics | 48 |
| Physics | 24 |
| Psychology | 2 |
| Social Sciences | - |
| Modern Languages | 277 |

College of Management 11

Research Centers

| Advanced Technology Development Center | - |
| :--- | ---: |
| Nuclear Research Center | 9 |
| Office of Interdisciplinary Programs | 147 |
| Other | 9 |
| Total | 165 |

Georgia Tech Research Institute
Office of the Director
Electronics \& Computer Systems Laboratory

## Economic Development Laboratory 77

Electromagnetics Laboratory
Energy \& Materials Sciences Laboratory
Radar \& Instrumentation Laboratory
Systems Engineering Laboratory

| 41,520 | - |  |
| ---: | ---: | ---: |
| $31,218,557$ | 116 | $12,601,346$ |
| $5,498,267$ | 37 | $2,614,811$ |
| $38,830,287$ | 86 | $6,298,387$ |
| $18,185,102$ | 58 | $2,786,967$ |
| $61,244,244$ | 93 | $16,850,092$ |
| $47,197,347$ | 61 | $21,794,423$ |
| $81,024,870$ | 57 | $23,131,737$ |
| $\$ 283,240,194$ | 508 | $\$ 86,077,763$ |
|  |  |  |
| $\$ 539,713,700$ | 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 ResearchCorporation(GTRC), theOffice 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.

## 

## 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.

## 

## 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.


## 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 fromPID, 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., assurance of 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.

## 

## 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 alsooperates 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.


## 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 cameracapable 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, and 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 multiplediscipline 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 cost-risk-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.

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

The Center for Excellence in Rotary WingAircraft 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 CenterforArchitectural 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.

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.

[^8]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:

## 

## ECONOMIC DEVELOPMENT LABORATORY

The
ECONOMIC DEVELOPMENT LABORATORY (EDL) transfers technology to business, performs applied economic research for fact-based decisionmaking, 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. It also 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: ElectroOptics; Physical Sciences; Millimeter-Wave Techniques; and the Huntsville Operations. A broad spectrum of research programs covers both governmental and industrial activities. Some of these are: digital image processing, millimeter-wave technology, molecular beam epitaxy (MBE), radiometric systems, remote sensing applications, 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 ENERGYAND 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

The RADAR AND INSTRUMENTATION LABORATORY (RAIL) is composed of four major units: Modeling and Analysis; Radar Applications; Technology Development; andaSpecial 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

 LABORATORYThe SYSTEMS AND 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 threatradar 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 majorunits: 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 AirLogistics 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

## Georgia Tech <br> 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 development, and advanced digital
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


## Georgia Tech Research Institute

STAFF, 30 June 1988

| Research Regular (full-time) | Number | Percentage | Total |
| :---: | :---: | :---: | :---: |
| Professional |  |  | 646 |
| By Highest Degree |  |  |  |
| Doctorate* | 115 | 18.0\% |  |
| Master's | 318 | 49.2\% |  |
| Bachelor's | 198 | 30.7\% |  |
| Other | 6 | 0.8\% |  |
| No Degree | 9 | 1.3\% |  |
| Support |  |  | 339 |
| Total Research Regular (full-time) |  |  | 985 |
| Supplementary (part-time) |  |  |  |
| Number |  |  |  |
| Professional | 32 |  |  |
| Support | 134 |  |  |
| Graduate Research Assistants | 111 |  |  |
| Co-op Students | 151 |  |  |
| 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 $\quad \$ 68.3$ million |  |  |  |
| Interdepartmental Services | 6.5 million |  |  |
| State Appropriation | 10.6 million |  |  |
| TOTAL | \$85.4 million |  |  |
|  |  |  |  |
|  | RESEARCH FACILTIES |  |  |
| 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. The 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).

Georgia Tech is an equal employment/ education opportunity institution.

Quantity 1,7501\$4,690


[^0]:    Source: Office of the President (approved by the

[^1]:    * See page 28 for additional statistics regarding these programs.

    Source: Office of the Director, Financial Aid

[^2]:    ** See pages 29 and 30 for additional statistics regarding this program.

[^3]:    

[^4]:    Source: Office of the Registrar

[^5]:    Source: Office of the Registrar

[^6]:    Source: Office of the Vice-President for Interdisciplinary Programs

[^7]:    Source: Office of the Executive VicePresident

[^8]:    Source: Office of the Vice-President for Interdisciplinary Programs

