Aerospace Manufacturing

A Growth Leader in Georgia

In this study:

Georgia Power

Community and Economic Development

Aerospace Manufacturing

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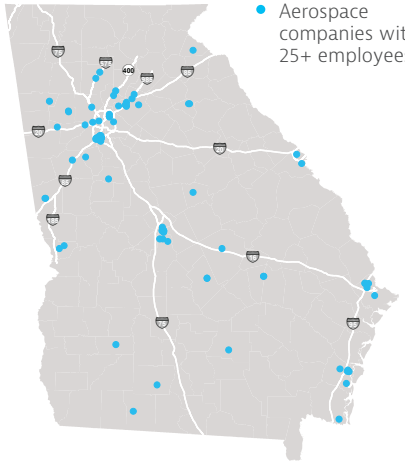
Aerospace is defined as Aerospace Products and Parts Manufacturing as well as Other Support Activities for Air Transportation.



#1
State for for Aerospace Manufacturing[1]

#2
Ranking of the Georgia market for aircraft engines and parts exports in the U.S.

#7
State for Defense Spending Investment[2]

181,500
Number of workers employed in aerospace-related occupations[3]

Georgia is the ideal home for aerospace companies. With the world's most traveled airport, eight regional airports, prominent military bases and accessibility to the country's fastest-growing major port, Georgia's aerospace industry serves a global marketplace. Georgia is also home to a highly-skilled workforce and world-class technical expertise geared toward promoting the success of the aerospace industry. Georgia's business climate is consistently ranked as one of the best in the country, with a business-friendly tax code and incentives that encourage manufacturing growth for existing and newly arriving companies.

Leaders in the Industry

Several global and national leaders in the aerospace industry have a presence in Georgia. Lockheed Martin, a major global aerospace and defense contractor, specializes in researching, developing and manufacturing advanced military technology. Gulfstream Aerospace is a national leader in commercial aircraft manufacturing and repair. Additionally, Meggitt Polymers & Composites, a division of UK-based Meggitt PLC, specializes in flexible fuel tanks and helicopter interior panels and accessories.

New Aerospace Companies Bring Business to Georgia

In the last five years, 12 facilities located or expanded operations, creating more than 1,700 jobs. Georgia's latest announcements include Pratt & Whitney's expansion in Columbus in both 2016 and 2017, Meggitt Polymers & Composites' expansion in Rockmart and MSB Group's location in Savannah. For a complete list of new major locations and expansions, see page 2.

Why Georgia for Aerospace?

- Highly skilled workers
- World-class technical expertise
- Renowned workforce training program
- Increasing number of defense personnel
- Business-friendly environment
- Excellent accessibility to market

Top Aerospace Employers

Company	Employment
Gulfstream Aerospace Corp.	10,250
Delta TechOps Division	6,643
Lockheed Martin Corp.	5,400
Meggitt Polymers & Composites	900
Triumph Aerostructures-Vought Aircraft	750
Northrop Grumman Corp.	576
PCC Airfoils LLC	522
Pratt & Whitney/Columbus Engine Center	480
JAC Products Inc.	460
Aircraft Service International Group Inc.	450

Note: Employment numbers reflect the employment of all Georgia locations. Employment numbers listed on this table are actual industry workers, which differ from occupational workers. Occupational workers mentioned on this page and on page 6 of this study have skills that could be applied to the aerospace industry. Source: Aerospace Database, Georgia Power Community and Economic Development, 2017

[1] PriceWaterhouseCoopers (PwC) 2017 Aerospace Attractiveness Rankings, 8.15.2017
[2] Office of Economic Adjustment - Defense Spending by State, FY2015
[3] EMSI 2017.3

Aerospace companies bring business to Georgia.

Aircraft Engine Manufacturer, Pratt & Whitney, to Invest $386 Million in Columbus Facility

"This investment will ensure we have the appropriate infrastructure, tooling and trained workforce in place to provide the best products and services to our customers worldwide."

Chris Calio, Pratt & Whitney Commercial Engines

Source: "Pratt & Whitney to Create More Than 500 Jobs in Muscogee County," Governor's Office Press Release, 2.14.2017

14,000
Number of civilian workers employed at Georgia's four Air Force bases

375
Number of private facilities dedicated to aerospace parts and products manufacturing, and air transportation support activities[1]

[1] QCEW, U.S. Bureau of Labor Statistics, 2016 data

Major locations and expansions bring more than 1,700 aerospace jobs to Georgia.

Year	Company	City	County	Product	No. of Jobs Announced
2017	Pratt & Whitney*	Columbus	Muscogee	Aircraft engine overhaul and repair	500
2017	Terma	Atlanta	Cobb	Defense and aerospace manufacturer	10
2016	Meggitt Polymers & Composites*	Rockmart	Polk	Engine components and other structures for F35 combat fighter	144
2016	Pratt & Whitney*	Columbus	Muscogee	Aircraft engine overhaul and repair	100
2016	MSB Group	Savannah	Chatham	Interior components of business aircrafts	50
2015	Wencor Group LLC*	Peachtree City	Fayette	Aerospace parts supplier	295
2015	Boeing Co.*	Macon	Bibb	Structural subassemblies for airlifters	212
2015	Triumph Aerostructures*	Milledgeville	Baldwin	Composite and metal bonded air-craft structures	50
2015	McCann Aerospace Machining*	Athens	Clarke	Precision machined monolithic parts for the aerospace industry	25
2014	Gulfstream Aerospace*	Brunswick	Glynn	Commercial aircraft	100
2013	Valent Aerostructures**	Pooler	Chatham	Complex sub-assemblies for airframe manufacturers	100
2013	Pratt & Whitney*	Columbus	Muscogee	Aircraft engine overhaul and repair	125
				Total	**1,711**

*Expansions
**Acquired by LMI in 2013
Source: Press announcements; Aerospace Database, Georgia Power Community & Economic Development, 2017

Georgia is the Center of Major Aerospace Activity

More Than 24,000 Employed by Major Manufacturing Employers within 400 Miles of Atlanta+

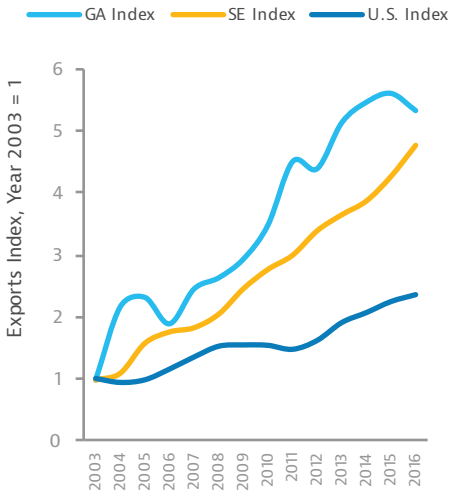
+Employment does not reflect total aerospace manufacturing employment by state. Aerospace manufacturing may be higher as locations portrayed on this map are only a sample of total aerospace manufacturing employment in each state.
*Represents projected employment number at full production in 2018
Source: Press announcements; Aerospace Database, Georgia Power Community and Economic Development, 2017

Georgia's aerospace cluster is the largest in the Southeast.

The aerospace industry is one of the largest in terms of employment and one of the fastest-growing sectors in Georgia within transportation equipment manufacturing. Among southeastern states, Georgia is the second most specialized in the production of aerospace products, generating greater export opportunities for local companies. Lockheed Martin and Gulfstream are among the largest exporters in Georgia. Georgia employs more than 21,000 workers in aerospace product and parts manufacturing.

Aerospace exports increased 180 percent from 2006 to 2016, 2.3 times the growth of U.S. exports. Georgia's aerospace exports also account for 30 percent of all aerospace exports in the Southeast, followed by Florida with 25.9 percent and South Carolina with 24.7 percent.

Exports in Georgia: Outperforming the U.S.



*Southeast region, as defined in this study, includes Georgia, Alabama, Florida, Mississippi, North Carolina, South Carolina and Tennessee Note: HS Commodities codes used - 88, Aircraft, Spacecraft, and Parts Thereof, and 8411, Turbojets, Turbopropellers, and Other Gas Turbines, Parts. Source: State exports by HS commodities, USA Trade® Online, Foreign Trade Division, U.S. Census Bureau.

Top States in Aircraft and Aircraft Engines Exports

Aircraft

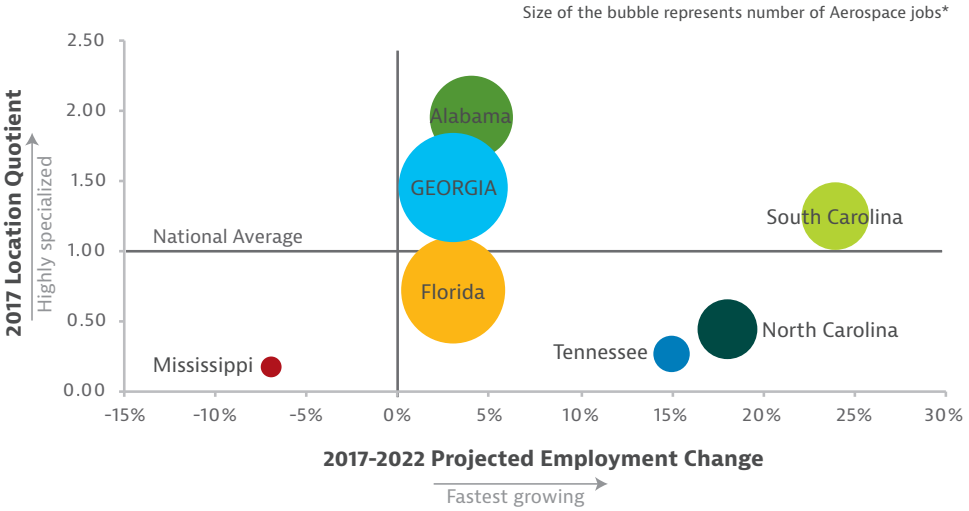
1.	Washington
2.	California
3.	Kentucky
4.	Texas
5.	**Georgia**
6.	Florida

Aircraft Engines and Parts

1.	Texas
2.	**Georgia** Ohio
4.	South Carolina
5.	Florida

Source: State exports by HS commodities, USA Trade Online, Foreign Trade Division, U.S. Census Bureau, 2016 data

Georgia's Aerospace Industry: Largest in Employment and Second Most Specialized in the Southeast



	Aerospace Employment	2017 Location Quotient	2017-2022 Projected Employment Change
Georgia	**21,647**	**1.51**	**6.0%**
Florida	20,191	0.73	6.0%
Alabama	12,295	1.85	5.0%
South Carolina	7,289	1.08	30.0%
North Carolina	5,032	0.35	21.0%
Tennessee	2,180	0.22	-17.0%
Mississippi	757	0.19	-2.0%

*Aerospace product and parts manufacturing (NAICS 33641), LQ = ratio of proportion of an area's employment in an industry to that of the nation as a whole, LQ of 1 = National average, LQ < 1 = Area's activity is not specialized, LQ > 1 = Area is more specialized. Source: EMSI, 2017.3

Georgia's 375 aerospace companies are located throughout the state.

The industry NAICS classifications used in this study are in the 336 family, Aerospace Product and Parts Manufacturing, and 488190, Other Support Activities for Air Transport. Many companies within these classifications are located close to Georgia's international and regional airports, including Hartsfield-Jackson Atlanta International Airport, the world's most traveled airport, averaging 275,000 passengers a day. Georgia ranks third for maintenance, repair and overhaul (MRO) employment and sixth in economic activity generation, according to the Aeronautical Repair Station Association's *2017 Global MRO Market Economic Assessment* report.

Aerospace Employment at Georgia's Air Force Bases

GA Air Force Base, City	Civilian Employment in Aerospace
Dobbins ARB, Marietta	700
Ft Stewart/Hunter AFB, Savannah	3,891
Moody AFB, Valdosta	800
Robins AFB, Warner Robins	15,911
TOTAL	**21,302**

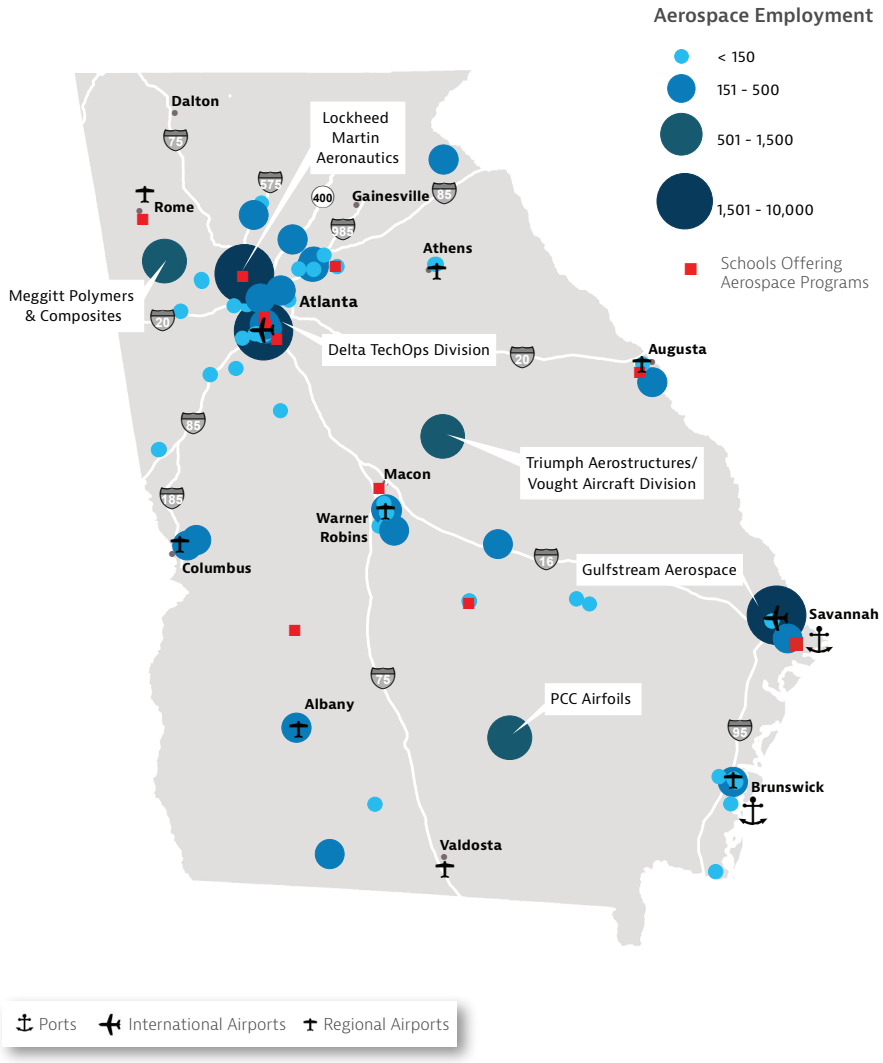
Source: Military base contacts, 2016

Defense Continues to be a Major Market for Georgia

With the continued investment the Department of Defense is making in Georgia, the state has launched the Georgia Defense Exchange (GDX). This is an interactive business development platform designed to assist Georgia businesses in finding new opportunities in DOD contracting. The directory includes contract histories and detailed company profiles for defense contractors located in Georgia. Its interactive dashboards, data visualizations, real-time data and business-to-business communication tools are designed to appeal to companies in any industry. Companies with no experience in defense contracting as well as seasoned defense businesses can benefit from GDX.

Source: "Deal announces launch of Georgia Defense Exchange," Office of the Governor Press Release, 7.31.2017

Aerospace Clusters

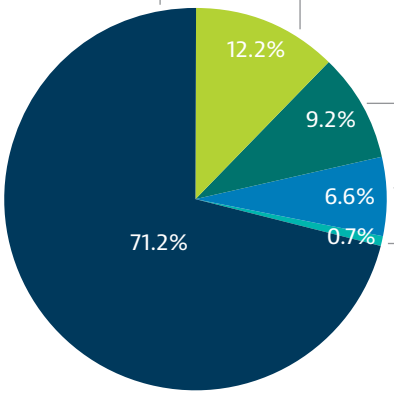


Source: Aerospace Database, Georgia Power Community and Economic Development, 2017

Aircraft Manufacturing is the leading segment for aerospace employment in Georgia.

Aircraft manufacturing accounts for more than 70 percent of all employment in Georgia's aerospace industry, followed by other air transportation support activities and aircraft engine and engine parts manufacturing with 12.2 percent and 9.2 percent, respectively.

Georgia Aerospace Employment by Segment



Source: EMSI, 2017.3

Aircraft Manufacturing: This segment includes the production of aircraft, aircraft conversion and complete aircraft overhaul and rebuilding.

Other Support Activities for Air Transportation: The second largest segment comprises companies providing specialized services, including aircraft testing, maintenance and repair and fueling services.

Aircraft Engine and Engine Parts Manufacturing: This segment covers a variety of products including aircraft engine overhaul and rebuilding, gasoline engine parts, jet propulsion engine parts and rocket engines

Other Aircraft Parts and Equipment: This segment includes companies engaged in manufacturing aircraft parts or auxiliary equipment (except engines and aircraft fluid power subassemblies) and companies developing and making prototypes of aircraft parts and auxiliary equipment. Auxiliary equipment includes such items as crop dusting apparatus, armament racks, in-flight refueling equipment and external fuel tanks.

Guided Missile and Space Vehicle Manufacturing and Propulsion Unit and Unit Parts Manufacturing: This segment includes manufacturing complete guided missiles and space vehicles as well as developing and making prototypes of guided missiles or space vehicles.

Top Employers in Largest Industry Subgroups

Aircraft Manufacturing

Gulfstream Aerospace Corp.	10,000
Lockheed Martin Aeronautics Co.	5,400
Thrush Aircraft Inc.	280

Other Support Activities for Air Transportation

Delta TechOps Division	6,643
Northrop Grumman Corp.	576
Aircraft Service International Group Inc.	450

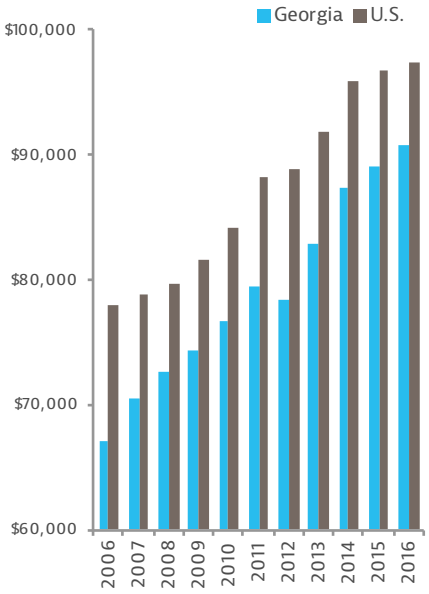
Aircraft Engine and Engine Parts Manufacturing

PPC Airfoils	522
Pratt & Whitney	480
Precision Components International Inc.	350

Source: Aerospace Database, Georgia Power Community and Economic Development, 2017

More than 181,000 Georgia workers are employed in aerospace-related occupations.

Georgia's Wage Rates Fall Below National Rates in the Aerospace Industry*



*Aerospace product and parts manufacturing only

Source: Average Annual Pay, Private Industry – Quarterly Census of Employment and Wages; U.S. Bureau of Labor Statistics, August 2017

Georgia is known for its high-quality, affordable workforce. Wage rates in Georgia typically fall below the national average, particularly for manufacturing occupations. Georgia's weekly wage rate for the aerospace product and parts manufacturing industry follows this trend.

With more than 181,000 aerospace-related workers, Georgia offers an ample supply of skilled employees with a variety of technical backgrounds.

SOC Code	Occupation	Number of Georgia Workers
17-2011	Aerospace Engineers	2,681
17-2071	Electrical Engineers	4,381
17-2072	Electronics Engineers, Except Computer	5,854
17-2112	Industrial Engineers	6,478
17-2141	Mechanical Engineers	5,079
17-2199	Engineers, All Other	2,935
17-3021	Aerospace Engineering and Operations Technicians	251
17-3023	Electrical and Electronics Engineering Technicians	3,887
17-3026	Industrial Engineering Technicians	1,138
17-3029	Engineering Technicians, Except Drafters, All Other	1,510
49-1011	First-Line Supervisors of Mechanics, Installers, and Repairers	14,298
49-2091	Avionics Technicians	1,613
49-2094	Electrical and Electronics Repairers, Commercial and Industrial Equipment	2,590
49-3011	Aircraft Mechanics and Service Technicians	8,699
51-1011	First-Line Supervisors of Production and Operating Workers	21,519
51-2011	Aircraft Structure, Surfaces, Rigging, and Systems Assemblers	2,771
51-2031	Engine and Other Machine Assemblers	436
51-2041	Structural Metal Fabricators and Fitters	1,508
51-2092	Team Assemblers	49,461
51-4011	Computer-Controlled Machine Tool Operators, Metal and Plastic	2,193
51-4033	Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal and Plastic	1,167
51-4034	Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic	740
51-4041	Machinists	7,394
51-4081	Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic	1,681
51-4111	Tool and Die Makers	1,066
51-4121	Welders, Cutters, Solderers, and Brazers	10,880
51-4199	Metal Workers and Plastic Workers, All Other	345
51-9022	Grinding and Polishing Workers, Hand	575
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	16,354
51-9122	Painters, Transportation Equipment	2,021
	Total	**181,505**

Source: EMSI, 2017.3

Doing business in Georgia is easy and profitable.

Georgia is a pro-business state. An aggressive incentives program, favorable tax rates, favorable conditions for employers and programs to accelerate the permitting and development process make Georgia the right place to start and grow a business. Georgia's current corporate income tax is six percent, ranking it among the lowest in the nation. Georgia's corporate income tax is based on a single-factor apportionment, weighted solely on sales receipts in Georgia.

Statutory Incentives

Aerospace manufacturing companies in Georgia are often eligible for a variety of tax credits and sales tax exemptions. The state's job tax credit program grants credits for job creation that may be applied against the state's corporate income tax. Other tax credits include those tied to capital investment, employee training and child care. See the listing to the right for major tax credit programs and major tax exemptions in Georgia. For detailed information on tax exemptions, credits and other state incentives, please visit the Publications page of SelectGeorgia.com.

Right-to-Work State

Georgia is a right-to-work state. Georgia has maintained this status since 1947.

Employment-at-Will State

Georgia has no employment laws which are more stringent or restrictive than those at the federal level. Georgia is an employment-at-will state. In the absence of a written contract and in compliance with federal employment laws, employers in Georgia are able to exercise their own hiring and dismissal decisions; state laws make no provisions for wrongful discharge.

One-Stop Permitting

Georgia offers a consolidated state environmental program with delegated authority from the U.S. Environmental Protection Agency (EPA) for issuance and enforcement of federal permits. The Georgia Department of Natural Resources issues or denies all permits required by state and federal environmental protection legislation when a facility is being located in the state. One-stop permitting enables prospective industries to obtain expedited required permits.

Georgia's Tax Credit Programs

- Job Tax Credit
- Quality Jobs Tax Credit
- Mega Project Tax Credit
- Investment Tax Credit
- Optional Investment Tax Credit
- Small Business Growth Tax Credit
- Port Activity Tax Credit
- Mass Transit Tax Credit
- Wood Residuals Tax Credit
- Retraining Tax Credit
- Education Tax Credit
- R&D Tax Credit
- Child Care Property Tax Credit
- Qualified Child Care Property Tax Credit

Major Tax Exemptions

Property:

- Local Tax Abatement*
- Freeport Inventory

Sales:

- Energy Used in Manufacturing
- Industrial Materials
- Packaging Materials
- Manufacturing Machinery
- Primary Material Handling Equipment
- Pollution Control Equipment
- Computer Hardware and Software
- Custom Computer Software Development
- Clean Room Equipment
- Telephone Services

*at local discretion

Site Selection

"Top U.S. Business Climates"

1.	**Georgia**
2.	North Carolina
3.	Texas
4.	Ohio
5.	Tennessee

Source: "2017 Top State Business Climate Rankings," *Site Selection* magazine, November 2017

Area Development

"Top States for Doing Business"

1.	**Georgia**
2.	South Carolina
3.	Texas
4.	Tennessee
5.	Louisiana

Source: "Top States for Business 2016: Site Consultant Survey," *Area Development* magazine, September 2016

Georgia boasts one of the nation's lowest private manufacturing union memberships.

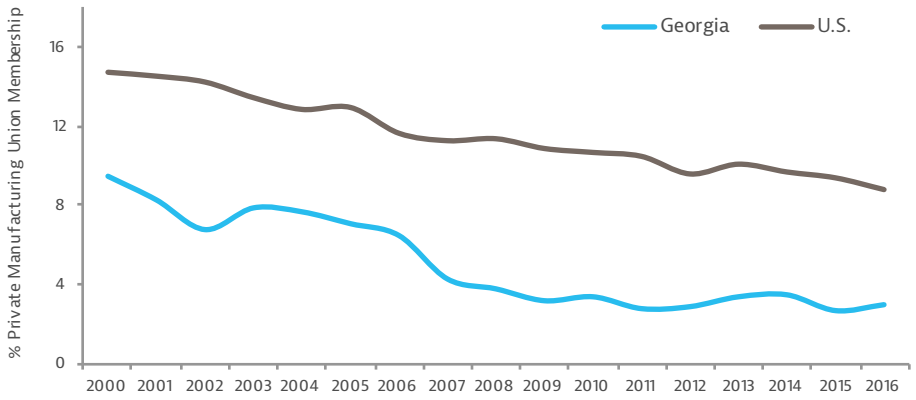
The overall unionization rate in Georgia among all wage and salary workers in 2016 was 3.9 percent. Georgia's private manufacturing unionization is among the lowest in the country at 3.0 percent, the ninth lowest in the nation, compared to 8.8 percent at the national level. Overall, average union membership rates in Georgia and the U.S. have significantly decreased in the last 20 years.

States With Lowest Private Manufacturing Union Membership

1.	South Carolina	0.8%
2.	Alaska	1.3%
3.	New Hampshire	1.4%
4.	New Mexico	1.4%
5.	North Carolina	1.8%
6.	Arizona	2.2%
7.	Texas	2.5%
8.	Utah	2.6%
9.	**Georgia**	**3.0%**
10.	Florida	3.1%

Source: 2017 Union Membership and Earnings Data Book, Bloomberg BNA (2016 data)

Private manufacturing union membership is decreasing.



Source: 2017 Union Membership and Earnings Data Book, Bloomberg BNA (2016 data)

Area Development

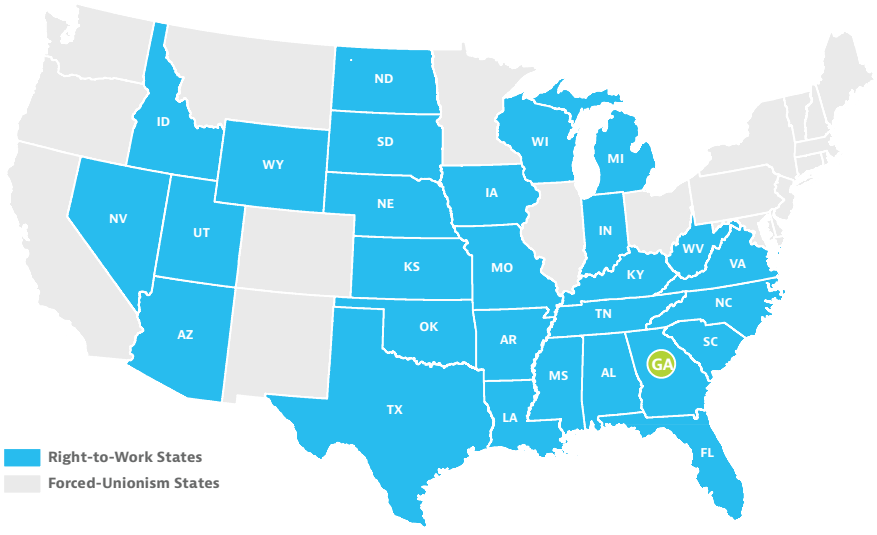
Competitive Labor Environment

1.	Texas
2.	**Georgia**
3.	North Carolina
4.	South Carolina
5.	Alabama

Source: "Top States for Doing Business 2016: Site Consultant Survey," Area Development magazine, Q3 2016

Aerospace Industry-Related Unions

Georgia's aerospace industry-related unions include the Machinists and Aerospace Workers (IAM), Sheet Metal Workers (SMW), Steel Workers (USW), Teamsters (IBT), Electrical Workers (IBEW), Industrial Workers (AIW) and Engineers (IUOE).



Source: National Right to Work Committee, National Right to Work Legal Defense Foundation, Inc (NRTW), August 2017

Georgia's research universities are leaders in manufacturing innovation.

Georgia's Research Universities

Georgia's colleges and universities are also committed to research and development. The state is home to nearly 20 schools that received research funding in 2015. Research dollars enable work in a variety of fields from life sciences to engineering. Research centers and university-sponsored economic development organizations around the state focus on taking cutting-edge technologies from the laboratory to the factory floor. Georgia's businesses benefit greatly.

R&D Expenditures, 2015: According to the National Science Foundation, spending on research at Georgia's public and private universities ranked 12th in the nation. In research of specific interest to the aerospace manufacturing industry, Georgia colleges and universities were granted more than $820 million in research dollars, earning the state a 7th-place ranking nationwide and a 1st-place ranking among Southeastern states in those combined fields.* Research funding in the fields of math and computer science, physical sciences and engineering has increased 38 percent since 2009 for Georgia schools overall. The Georgia Institute of Technology received $553 million in engineering research funding for 2015, bested only by Johns Hopkins University with $992 million.

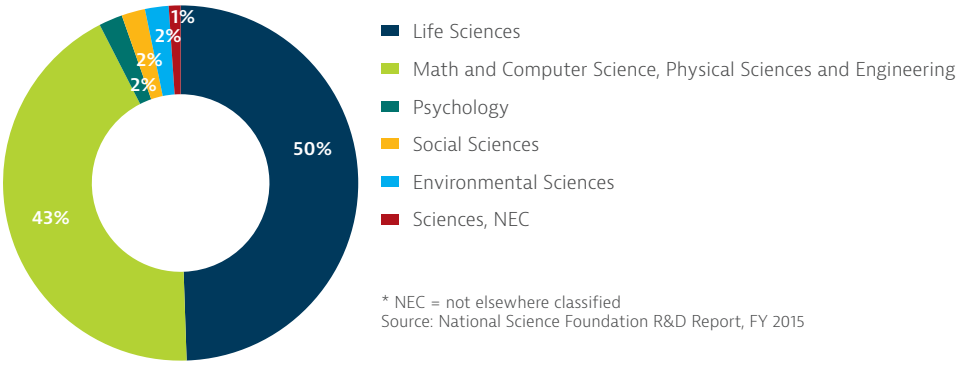
(*math, computer science, physical sciences and engineering)

Top Schools for Engineering R&D Expenditures (Dollars in Millions)

1.	Johns Hopkins University	$992
2.	**Georgia Institute of Technology**	**$553**
3.	Massachusetts Institute of Technology	$416
4.	Texas A&M University	$299
5.	Pennsylvania State University	$299
6.	SUNY, Polytechnic Institute	$291
7.	University of Michigan, Ann Arbor	$255
8.	Virginia Polytechnic Institute and State University	$226
9.	University of Texas, Austin	$217
10.	Purdue University	$194

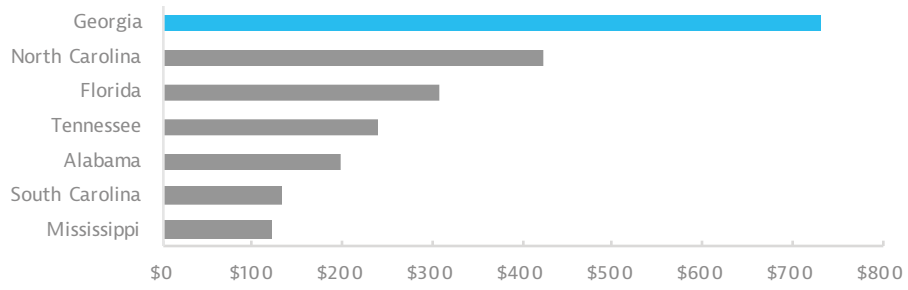
Source: National Science Foundation, R&D Expenditures in Engineering, FY 2015

Georgia's 2015 Research Funding by Discipline



* NEC = not elsewhere classified
Source: National Science Foundation R&D Report, FY 2015

Georgia Ranks Top Among Southeastern States in Aerospace-Related R&D Expenditures (in millions)



* Environmental Sciences, Physical Sciences, Engineering
Source: National Science Foundation R&D Report, FY 2015

GTRI fosters technology transfer to bring innovation and competitiveness to businesses.

The Advanced Technology Development Center (ATDC) at Georgia Tech has produced more than 150 science and technology companies since 1986 – nearly a third of which have been represented on the public markets through IPOs or acquisitions.

ATDC has been recognized by *BusinessWeek, Inc.* and *Forbes* magazines as one of the nation's top nonprofit incubators. Since 1999, ATDC companies have attracted more than $1 billion in venture capital funding.

Boeing Partners with Georgia Tech on New Research Center

The Boeing Manufacturing Development Center opened at Georgia Tech to address the difficult technical challenges in manufacturing today. Students work hand in hand with Boeing engineers, beginning with projects related to industrial robotics for machining and fabrication applications.

"This advanced center will let Georgia Tech students collaborate with Boeing engineers to help drive the development of innovative factory automation solutions in aerospace."

Greg Hyslop, Chief Technology Officer and Senior Vice President of Engineering, Test & Technology, Boeing

Source: "Boeing, Georgia Tech Unveil New Research Center," Georgia Tech news, 6.22.2017

The Georgia Tech Research Institute (GTRI) The Georgia Tech Research Institute (GTRI) works closely with the aerospace manufacturing industry in developing advanced performance and feature technology. The Institute is involved in e-safety projects as well as transportation structure research. GTRI supports approximately $100 million in research yearly for more than 200 clients in industry and government. GTRI laboratories include the Aerospace, Transportation and Advanced Systems Laboratory (ATAS) which specializes in engineering, fabrication and testing of aerospace, transportation and advanced systems. For additional information visit www.gtri.gatech.edu.

Formerly the Manufacturing Research Center (MARC), Georgia Tech's **Manufacturing Institute (GTMI)** has expanded to include researchers from all Georgia Tech colleges, the Enterprise Innovation Institute (EI^2) and the Georgia Tech Research Institute. With access to academic expertise and cutting-edge equipment, GTMI offers manufacturers the help they need to excel in the marketplace. More than 70 percent of GTMI's 400,000 square feet of space and state-of-the-art core facilities are paid for by private industry working with GTMI. It includes:

Precision Machining: Researching and applying technologies for enhanced productivity, part quality, difficult-to-machine features and machine tool utilization of precision finishing processes

Sustainable Design: Developing materials, processes and systems for implementing and operationalizing sustainability

Additive Manufacturing: Using innovative direct digital manufacturing to improve cost structure and delivery lead-time in creating mechanical parts and electronic devices

Factory Information Systems: Developing, testing and launching innovative software and technology that boosts manufacturing efficiency

Model-Based Systems Engineering: Applying software and electronics innovations to create analytic models that predict system performance and optimize system parameters

Ultra-Lightweight, Energy Efficient Materials and Structures: Using rigorous experimental and modeling R&D to advance and mature technology in aerospace, biomedical, defense, energy and industrial equipment

Supply Chain and Logistics: Applying scientific principles to optimize the design and integration of supply chain processes, infrastructure, technology and strategy, including developing new analysis, design and management tools and concepts and strategies

The Predictive Analytics Laboratory: Leveraging real-time condition monitoring data to improve change detection, diagnostics and prognostics of modern day manufacturing and service systems

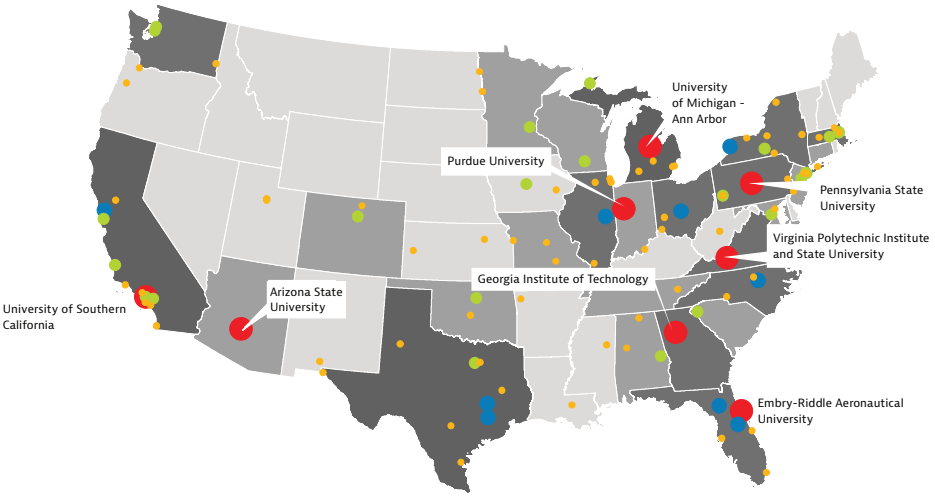
Source: Georgia Tech Manufacturing Institute website, www.manufacturing.gatech.edu

Georgia Tech is among the highest producers of aerospace graduates in the country.

With more than 2,000 aerospace-related graduates per year, Georgia Tech joins an elite group of academic institutions, including Purdue University, Embry Riddle, Virginia Tech, University of Southern California, University of Michigan-Ann Arbor, Arizona State and Penn State.

Georgia has the second largest aerospace-related employment in the Southeast. Georgia's aerospace-related occupational employment is projected to grow six percent by 2022.

Aerospace-Related Employment and Graduates



Annual Aerospace-Related Graduates

- > 1,000
- 751 - 999
- 501 - 750
- 250 - 500

Aerospace-Related Occupational Employment

- > 65,000
- 30,001 - 65,000
- 15,001 - 30,000
- 1,220 - 15,000

Source: EMSI 2017.3, 2015 Completions Data

Aerospace Graduate Classification Programs Used Above

CIP* Code	CIP Description
14.0201	Aerospace, Aeronautical and Astronautical Engineering
14.1001	Electrical, Electronics and Communications Engineering
14.1901	Mechanical Engineering
14.3501	Industrial Engineering
15.0801	Aeronautical/Aerospace Engineering Technology/Technician
47.0607	Airframe Mechanics and Aircraft Maintenance Technology/Technician
47.0608	Aircraft Powerplant Technology/Technician
47.0609	Avionics Maintenance Technology/Technician
49.0102	Airline/Commercial/Professional Pilot and Flight Crew
49.0101	Aeronautics/Aviation/Aerospace Science and Tech/General

Occupations Used Above

Occupation Code	Occupation Title
17-2011	Aerospace Engineers
17-2071	Electrical Engineers
17-2072	Electronics Engineers, Except Computer
17-2112	Industrial Engineers
17-2141	Mechanical Engineers
17-3021	Aerospace Engineering and Operations Technicians
49-2091	Avionics Technicians
49-3011	Aircraft Mechanics and Service Technicians
53-2011	Airline Pilots, Copilots, and Flight Engineers

*Classification of Instructional Programs
Source: CIP codes definitions, "Aerospace Workforce Industry Supply and Demand in Georgia," January 2008, Georgia Tech Research Corporation.

Delta Opens Advanced Manufacturing Facility at Georgia Tech

Delta Air Lines opened its new Advanced Manufacturing Pilot Facility at Georgia Tech in 2017. This facility is designed to be a place where students, faculty, staff and researchers collaborate on innovative products. Additionally, the space will serve as a demonstration and teaching facility.

"This facility is a little different. Our students, faculty, staff and researchers will be able to develop products, and it provides Delta an opportunity to collaborate with its partners."

G.P. "Bud" Peterson, President, Georgia Institute of Technology

"Delta Officially Opens New Advanced Manufacturing Facility at Georgia Tech," Georgia Tech News Center, 7.19.2017

Georgia's technology resources are cutting-edge.

Georgia is home to some of the world's top research and technology resources. These resources are dedicated to keeping Georgia's manufacturers, especially in the aerospace industry, on the leading edge of productivity advancements.

Making the Right Connections for Generation Orbit

Problem: Generation Orbit Launch Services, an Atlanta-based company that launches nano- and micro-satellites into space, had an ambitious goal of developing and launching their first vehicle into space in three years. However, they needed experts in systems design, fundraising, testing, manufacturing and flight systems.

Solutions: The Center of Innovation for Aerospace was able to connect them to fellow Georgia company, Phoenix Air, for assistance in flight testing, to the Mercer University Research Center for structural testing and to Middle Georgia State College's Applied Aerospace Research Institute for composite component fabrication. Finally, Generation Orbit was awarded a $21 million NASA contract for the first launch of the GOLauncher 2 at the recommendation of the Center.

Results: "Working with the Center of Innovation for Aerospace has been an invaluable experience. They guided and connected us to resources that, as a young aerospace company, we greatly needed. They continue to be an incredible resource, and we wouldn't be where we are today without their services."

A.J. Piplica, COO, Generation Orbit

Source: "Generation Orbit's Reach for the Stars Aided by COI for Aerospace," Georgia Center of Innovation for Aerospace, Georgia Department of Economic Development, 2017

Georgia's Centers of Innovation

A division of the Georgia Department of Economic Development, Georgia has six centers of innovation readily available to businesses: aerospace, agribusiness, energy, life sciences and information technology, logistics and manufacturing. Directly related to the aerospace industry are:

Georgia Center of Innovation for Manufacturing (COIM): The Georgia Center of Innovation for Manufacturing helps manufacturing operations all over the state tap into university research partners and access new markets through product and process development assistance, technology transfer, access to equipment and a wide industry network. Located within the Georgia Tech Manufacturing Institute, the Center has direct access to a number of industry experts who can provide customized solutions to Georgia manufacturers and give them the opportunity to test new technologies before implementing costly process changes. For more information, visit Manufacturing.GeorgiaInnovation.org.

The Georgia Center of Innovation for Manufacturing offers the following services:

- Access to university-level research and development
- Expedited product commercialization
- Manufacturing process and systems development
- Industry-specific business intelligence
- Access to technical college workforce training programs

Georgia Center of Innovation for Aerospace (COIA): The Georgia Center for Innovation for Aerospace provides the technical industry expertise, collaborative research and partnerships needed to help the state's aerospace industry connect, compete and grow globally.

The Center engages Georgia's expansive university research system and technology community for new product development, process improvement and bottom line solutions. Companies find answers while building valuable bridges between private industry and academia. Led by recognized experts in their industry, the Centers of Innovation help tackle day-to-day challenges, resolve complex domestic and global issues and adjust to meet the needs of an increasingly competitive global economy. The Center currently has initiatives focused on emerging opportunities in unmanned aircraft systems and commercial space. To learn more about Georgia's aerospace industry, search the Aerospace Directory of more than 500* companies, and access the Center's resources and programs, visit Aerospace.GeorgiaInnovation.org.

*The Georgia Center of Innovation for Aerospace's aerospace industry definition is different from the scope of this study.

Georgia Tech's Institute for Robotics and Intelligent Machines: Through integrated research across many disciplines and campus units, Georgia Tech develops innovative solutions for manufacturing, healthcare and first responders, as well as for a variety of other critical areas, including defense and service applications. Using state-of-the-art facilities and working with strategic partners, the center improves society by investigating novel robotic technologies that enhance the lives of everyone.

Georgia is home to the top workforce training program in the nation.

Georgia has been at the forefront of workforce training for decades, and other states have learned from its success. Georgia's Quick Start program, technical colleges and highly-regarded research universities work closely with business to ensure the highest level of worker readiness.

Quick Start Program

QUICKSTART® Georgia's Quick Start program is internationally-recognized as one of the best in the world. For more than 40 years, Quick Start has provided customized workforce training free-of-charge to qualified businesses in Georgia. Today, the program is one of the state's key assets for supporting new and expanding industries. Quick Start delivers training in classrooms, mobile labs or directly on the plant floor.

Quick Start's advanced manufacturing expertise is indispensable to aircraft manufacturers as well as suppliers. Quick Start has the capabilities to meet a wide range of training needs. With in-depth experience serving hundreds of companies that manufacture metal, plastic and electronic components, Quick Start firmly grasps the complexities of today's manufacturing technologies. Regardless of the process, Quick Start's professional staff can help identify and fulfill training needs, including training in everything from robotic welding to quality testing to injection molding. Quick Start specifically designs training to help companies meet the rigorous quality standards of an ISO/TS 16949-certified automaker or other standards. For more information, visit www.GeorgiaQuickStart.org.

The following list of training focus areas represents some of Quick Start's fields of expertise as it applies to aerospace operations:

- Avionics Installation
- Blueprint Reading
- CNC Machine Operations
- Component Testing
- Composite Fabrication
- Control Rigging
- Defect Correction
- Documentation System
- Drilling and Tapping
- ERP System Interface
- Foreign Object Detection
- Harness Installation
- Hydraulic System Installation
- Lean Manufacturing
- Mil-Spec Soldering
- Precision Measuring
- Riveting
- Schematic Reading
- Sealant and Paint Application
- Statistical Process Control
- Systems Testing
- Total Productive Maintenance
- Visual Inspection

Area Development

"Leading Workforce Development Programs"

1. **Georgia**
2. Louisiana
3. South Carolina
4. Tennessee

Source: "Top States for Doing Business 2016: Site Consultant Survey," Area Development magazine, Q3 2016

Business Facilities

"Workforce Training Leaders"

1. Louisiana
2. Alabama
3. **Georgia**
4. Tennessee
5. New Mexico
6. Florida
7. Virginia
8. North Carolina
8. Oklahoma
10. Texas

Source: "Business Facilities' 13th Annual Rankings Report," 7.20.2017

95 percent of Quick Start FY 2016 projects supported Georgia's advanced manufacturing operations.

Source: *Quick Start News*, Volume 18, No. 2

Georgia's exceptional technical colleges support the state's aerospace industry.

Savannah Tech Soars with New Aviation Center

In 2013, Savannah Technical College opened its Aviation Training Center, a 30,000 square foot space at the Crossroads Campus. The Center includes four labs for hands-on instruction, classrooms and a 5,000 square foot hanger.

"This state-of-the-art facility is a tangible reminder of Savannah Technical College's commitment to provide an assortment of programs tailored to meet the workforce needs of our region's businesses and industries. With the opening of this facility, Savannah Technical College is answering the call of the aerospace industry for a workforce with specialized skills. Students that begin their training here will be on a pathway to great jobs and successful careers."

Kathy Love, President, Savannah Technical College

Source: "Savannah Tech Soars with New Aviation Training Center," Savannah Technical College, 8.19.2013

HOPE Grant and Scholarship

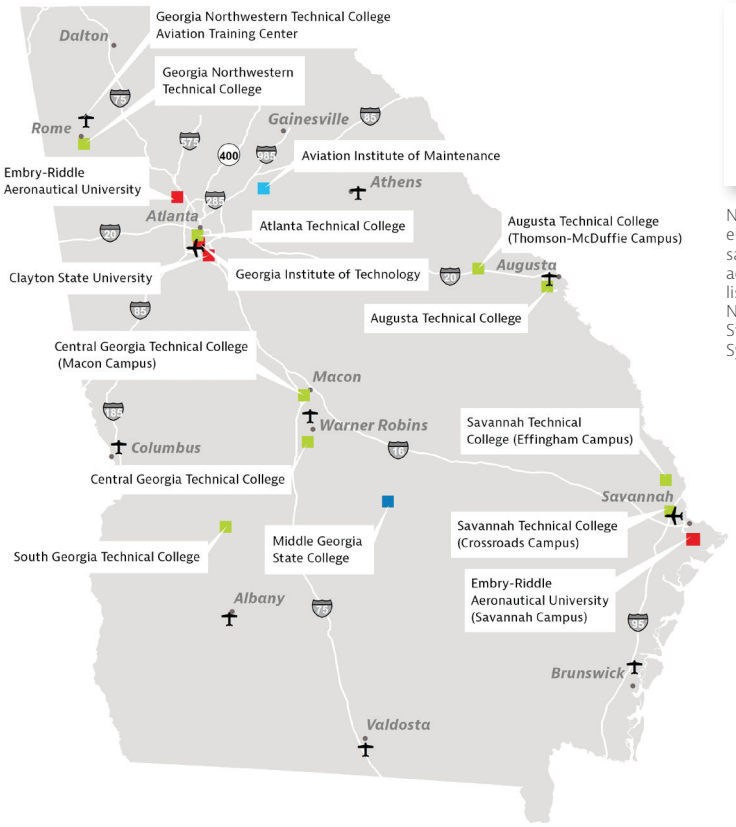
The HOPE Grant is available to all Georgia residents seeking a certificate or diploma from the Technical College System of Georgia. This grant covers $65 per credit hour as long as students maintain a certain GPA average.

The HOPE Scholarship is available to all Georgia residents seeking a degree at a public college or university. Students become eligible once they achieve and maintain a 3.0 GPA. This scholarship covers 90-100 percent of tuition.

For more information, please visit www.gacollege411.org.

Technical Colleges

Georgia is home to 24 technical colleges and numerous satellite campus locations that offer a variety of aerospace-related degree and certificate programs. To serve ongoing training needs, the Technical College System of Georgia offers programs to both develop a pipeline of pre-qualified new workers and enhance the skills of existing workers. Programs include two-year degrees, one-year diplomas and fast-track certificates in many relevant fields. For more information on Georgia's technical college system, visit www.tcsg.edu.



Note: Locations mapped are either main campuses or satellite campuses offering aerospace-related programs listed below. Source: IPEDS, National Center for Education Statistics; Technical College System of Georgia (TCSG), 2017

Aerospace Degrees Offered

University
Aeronautics (Bachelor's)
Aeronautical Science (Master's)
Aerospace Engineering (Bachelor's) (Master's)
Aviation Maintenance (Bachelor's)

College
Aircraft Structural Technology (Applied Associate)
Aviation Maintenance Technology (Applied Technology)
Avionics Technology (Applied Associate) (Certificate)
Aircraft Structural Technology (Certificate)
Aircraft Structural Worker (Certificate)
Aviation Maintenance Technology – Airframe and Powerplant (Certificate)

Technical College*
Aircraft Structural Technology (Diploma) (TCC)**
Aircraft Structural Maintenance (TCC)
Aircraft Assembly Technician (TCC)
Aviation Maintenance Technician (Diploma)
Avionics Maintenance Technology (Diploma) (TCC)
Aviation Maintenance Technology (Degree)
Aviation Maintenance Technician – Airframe (TCC)
Avionics Bench Technician (TCC)

Career School
Aviation Maintenance Technical Engineer (Certificate)
Aviation Maintenance Technician (Certificate)
Aviation Maintenance Technician Electronics (Certificate)
Avionics Technician Program (Certificate)
Advanced Structures Technician (Certificate)

*Other degrees offered at Georgia's technical schools but not covered in this study include air traffic management, airport management and flight technology. **Technical Certificate of Credit

Georgia offers various initiatives to support skilled labor.

Georgia WorkSmart

In October 2015, Georgia Governor Nathan Deal announced the launch of Georgia WorkSmart, a work-based learning initiative. This initiative aims to meet employers' workforce needs by developing and implementing customized training programs through apprenticeships, internships and cooperative education opportunities.

"Building upon the High Demand Career Initiative, Georgia WorkSmart is another step in ensuring our current and future workforce is prepared to meet employer needs. This program will help lead the way in establishing effective partnerships between businesses and educators to better prepare jobseekers for employment opportunities throughout the state," said Deal.

Please visit www.georgia.org/competitive-advantages/workforce-division/programs-initiatives/georgia-worksmart/ to learn more.

Source: "Deal Launches Georgia WorkSmart," Georgia Department of Economic Development press release, 10.26.2015

Georgia College and Career Academy Flight Operations Pathway

This pathway allows high school students to learn the basic principles of flight, aircraft navigation and communications and how weather affects the air traffic industry. Students will also learn to fly using flight simulators. This pathway is made up of three classes, Fundamentals of Aerospace and Flight Operations I and II which can be taken at Hutchings College & Career Academy in Macon.

Source: Hutchings College and Career Academy

Vector Successfully Launches First Ever Rocket from Spaceport Camden

In August 2017, Vector launched its B0.002 test vehicle, a prototype of their Vector-R launch vehicle, and completed a successful suborbital flight. Vector is a satellite space launch company composed of SpaceX, Virgin Galactic, McDonnell Douglas, Boeing, Sea Launch and VMware. This launch is the first customer-funded launch operation in the industry and the first at Spaceport Camden.

"Our historic launch today is a testament to the hard work of the Vector team, as well as support from NASA and Spaceport Camden. Together, we're on the fast-track to get to an orbital capability by 2018 and look forward to continuing momentum and unprecedented growth through the course of the year."

Jim Cantrell, CEO and Co-Founder, Vector

Source: "Vector Successfully Launches First Ever Rocket from Spaceport Camden," PR Newswire, 8.3.2017

Professional Support

Business outreach organizations and professional associations promote business processes and management solutions.

Enterprise Innovation Institute (EI²) innovate.gatech.edu
The Georgia Tech Enterprise Innovation Institute helps companies, entrepreneurs, economic developers and communities improve their competitiveness through the application of science, technology and innovation.

Mercer Engineering Research Center (MERC) merc-mercer.org
MERC is a non-profit center of Mercer University located in Warner Robins, Georgia, near Robins Air Force Base. MERC offers technical engineering and logistics solutions to aerospace and defense-related businesses. MERC's areas of expertise include aircraft structural analysis and design, flight test instrumentation, reverse engineering and prototyping, electronic warfare software algorithm development, laboratory structural testing and web-deployed applications with integrated database access.

Professional Groups and Trade Associations

Aerospace Components Manufacturers (ACM)	www.aerospacecomponents.org
Association for Facilities Engineering (AFE)*	www.afe.org
Aviation Suppliers Association (ASA)	www.aviationsuppliers.org
Georgia Business Aviation Association	www.gbaa.org
Institute of Electrical and Electronics Engineers (IEEE)*	www.ieee.org
Professional Aviation Maintenance Association (PAMA)	www.pama.org
Society of Manufacturing Engineers (SME)*	www.sme.org

*Association has a Georgia or Southeastern chapter

Georgia's superior accessibility moves products to markets faster.

Canadian Aerospace Company to Locate Division in Savannah

MSB, engineer and manfacturer of interior components for business aircrafts, selected Savannah for their U.S. sales and manufacturing site.

"We hope to expand capacity to respond to demand and become a world-class leader in the Aerospace industry in Georgia."

Stephanie Germain, Director of Operations, MSB

Source: "Canadian Aerospace Company to Locate Division in Savannah," businessinsavannah.com, 11.8.2016

Atlanta has long been the transportation center of the Southeast. With well-maintained highway systems connecting areas around the state to the rest of the nation, products made in Georgia are never far from their markets. Two major rail systems crisscross the state, and two major ports, Savannah and Brunswick, enable manufacturers, fabricators and processors to quickly ship to domestic and global customers. Georgia's prime location as a transportation hub is crucial.

Water

- Savannah is the fastest-growing container port and the fourth-largest in the nation.
- In the last five years, intermodal traffic jumped to more than 18 percent of Savannah's total traffic.
- Port expansions and improvements totaling $1 billion are planned over the next 10 years, including deepening of the Savannah River channel which will allow the Port of Savannah to more efficiently accommodate larger cargo and vessel types, exponentially increasing volume.
- Interstate highways and rail lines are easily accessible from the port facilities.
- Colonel's Island Terminal in Brunswick is equipped with a multi-purpose facility.

Highway

- 80 percent of the nation's consumer markets are within a two-day drive time.
- Four major interstates: I-75, I-85, I-20 and I-95
- Well-maintained, non-toll interstate system

Air

- 80 percent of the nation's major consumer markets are within a two-hour flight of Atlanta.
- Georgia has two international airports, Atlanta and Savannah. Seven additional airports provide commercial passenger service around the state.
- Hartsfield-Jackson Atlanta International Airport is the world's busiest in passenger volume.
- Hartsfield-Jackson has 1.2 million square feet of cargo handling space and two miles of mechanized conveyors.

Rail

- 4,700 miles of track, service to 500 communities
- CSX and Norfolk Southern each operate more than 80 freight trains in and out of Atlanta daily.
- Six major intermodal facilities; four in Atlanta, one in Brunswick and one in Savannah

Atlanta is the largest industrial market in the Southeast and a leading U.S. railroad hub.

Top 25 U.S. Industrial Markets

Source: Georgia Power Community & Economic Development, CoStar 2017.2Q

Partner with Georgia Power for your manufacturing facility location.

About Georgia Power

Georgia Power is the state's largest utility with a net plant investment of more than $19.2 billion. The company serves 2.4 million customers in Georgia, including 310,000 businesses and industries.

Georgia Power is a unit of Southern Company, which owns generating capacity of nearly 43,000 megawatts (MW) and provides electricity to nearly 4.4 million customers in the Southeast. Reserve margins and planned capacity additions ensure that the supply will continue to meet the growing needs of customers.

Georgia Power offers rates below the national average, providing customers with a variety of pricing choices, including real time pricing options with no demand charges.

Georgia Power has developed network power distribution systems, which provide customers with superior reliability. This design has several levels of redundancy, ensuring that service will not be affected if a circuit, transformer or substation transformer fails.

Customer Resource Center

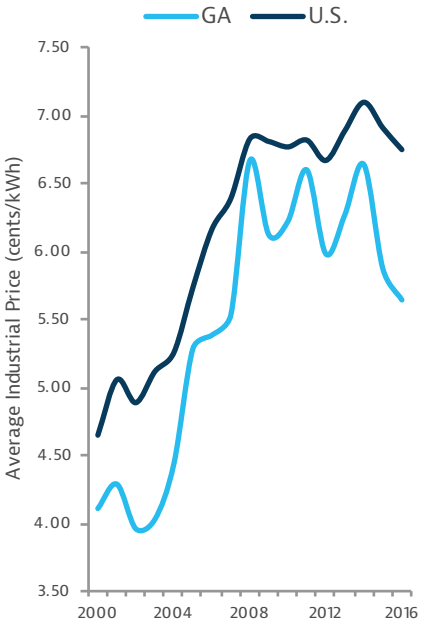
Georgia Power's Customer Resource Center in Atlanta offers hands-on demonstrations, showcasing everything from electric transportation, the latest in cooking technologies and manufacturing applications to energy efficiency ideas for the home. Learn about the latest in UV paint curing, the benefits of infrared heating systems, induction heating, powder coating technology and much more.

Experience The Electric Advantage®

- Commercial Cooking Equipment
- Powder Coating & UV Paint Curing
- Infrared Heating Systems
- Induction Heating & Ultrasonic Drying
- Electric Car & Battery Technologies
- High-Efficiency Lighting
- Electric Lift Trucks, Cranes, Conveyors & More

For more information, visit www.georgiapower.com/business/customer-resource-center/manufacturing.

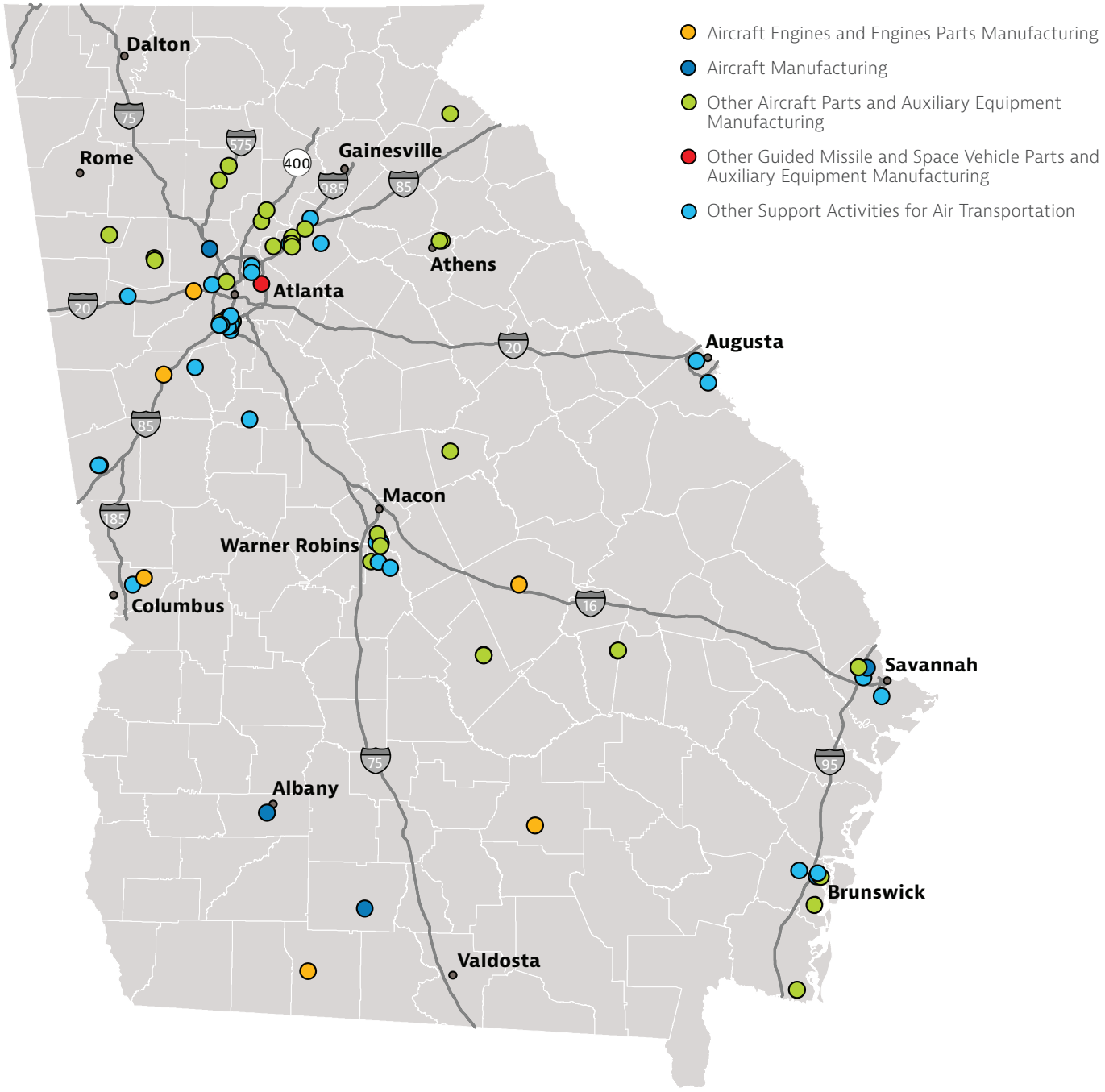
Georgia industrial pricing remains below the national average.



Source: Total Electric Industrial Average Retail Price, U.S. Energy Information Administration, November 2016 (2015 data)

Aerospace Companies

Georgia is home to a diverse mix of aerospace-related facilities, employing more than 33,500.*



*According to the Georgia Power Aerospace Products and Parts Manufacturing and Other Support Activities for Air Transportation Database 2017
Note: Map above shows facilities with 25 or more employees.

List of Aerospace Facilities in Georgia (25 or more employees)

Grouped by Industry and Ranked Alphabetically

Company	Employment	Line of Business	City	County
NAICS 336411: Aircraft Manufacturing				
Gulfstream Aerospace Corp.	**10,000**	**Jet aircraft**	**Savannah**	**Chatham**
Gulfstream Aerospace Corp.	**250**	**Jet aircraft**	**Brunswick**	**Glynn**
Lockheed Martin Aeronautics	5,400	Military fixed-wing aircraft, civilian and commercial rotary wing aircraft	Marietta	Cobb
Maule Air Inc.	28	Single engine, 4 place short take-off and landing (STOL) aircraft	Moultrie	Colquitt
Thrush Aircraft Inc.	280	Aircraft used to fertilize crops, fight wild fires, control insects and plant seeds from the air	Albany	Dougherty
Total	**15,958**			
NAICS 336412: Aircraft Engines and Engines Parts Manufacturing				
Chromalloy Georgia	125	Engine coating, casting, and forging for aerospace and automotive industries	Newnan	Coweta
McClain International Inc.	45	Engine parts including bearings, blades, combustion chambers, gears, vanes	College Park	Fulton
Parker Aerospace/Control Systems Division	200	Electrohydraulic servovalves, electromechanical actuators	Dublin	Laurens
Parker Hannifin Corp.	50	Industrial hydraulic and pneumatic cylinders	Lithia Springs	Douglas
PCC Airfoils LLC	520	Aircraft and land-based gas turbine engine rotating blades, stationary vanes and engine nozzles for OæEMs	Douglas	Coffee
Precision Components International Inc.	350	Blades for jet engines	Midland	Muscogee
TECT Corp	**180**	**Airframe structures, aircraft assemblies, fan blades, vanes, impellers, turbine airfoils**	**Thomasville**	**Thomas**
Total	**1,470**			
NAICS 336413: Other Aircraft Parts and Auxiliary Equipment Manufacturing				
Aerospace Fabrications of Georgia Inc.	40	Aircraft power and emergency systems, fuel tanks, doors	Dallas	Paulding
Altis Aero Systems Inc.	40	Pipes and fittings	Savannah	Chatham
American Panel Corp.	125	Flat panel modules for military, commercial and general aviation	Alpharetta	Forsyth
BAE Systems Inc.	35	Wiring devices for aerospace systems	Saint Marys	Camden
BAE Systems Inc.	40	Wiring devices for aerospace systems	Warner Robins	Houston
Barco Inc.	**170**	**Rugged display monitors for aircraft and helicopters**	**Duluth**	**Gwinnett**
Eaton Corp.	211	Conveyance systems including refueling equipment	Eastanollee	Stephens
FELLFAB Corp.	160	Aircraft interiors including fabric and leather seat covers, cushions and carpet kits, ground support equipment	Hapeville	Fulton
GE Energy Management/Airfoils	250	Metal or wood aircraft propeller blades	Duluth	Gwinnett
Georgia Hi-Tech Fabricators	35	Machined parts	Vidalia	Montgomery
Heart of Georgia Metal Crafters LLC	60	Aircraft sheet metal components	Eastman	Dodge
L-3 Communications Display Systems	400	Ruggedized display systems for air applications including flat panel matrix liquid crystal and cathode ray tube displays	Alpharetta	Forsyth
LMI Aerospace Inc.	45	Kits for aircraft skin	Savannah	Chatham
McCann Aerospace LLC	85	Precision machined monolithic parts for the aerospace industry	Athens	Clarke
McCann Aerospace LLC	85	Precision machined monolithic parts for the aerospace industry	Athens	Clarke
McCann Engineering Inc.	25	Aircraft shock mounts, slip ring assemblies, fuselage and components	Macon	Bibb
Meggitt Polymers & Composites	900	Aircraft seals, oil platforms, flexible fuel tanks and coatings; smart ice protection systems and sub-assemblies; and helicopter interior panels	Rockmart	Polk
PaR Marine	**70**	**Aircraft carrier elevators**	**Brunswick**	**Glynn**
PaR Marine	**70**	**Aircraft carrier elevators**	**Brunswick**	**Glynn**
RBC Aero Components	52	Precision machined parts, custom fabrication for the aerospace industry	Ball Ground	Cherokee
RCF Technologies Inc.	32	Seals gaskets, ducting, insulation, metal couplings for the aerospace industry	Vidalia	Toombs
Selex Galileo	30	Electronic and IT products and services to defense and aerospace industries	Norcross	Gwinnett
The Boeing Co.	45	Structural subassemblies for airlifters	Macon	Bibb
TIGHITCO Inc.	**190**	**Metal, sewn and molded insulation systems**	**Atlanta**	**Fulton**

Note: Bolded companies are headquartered in Georgia.

Company	Employment	Line of Business	City	County
Top Flight Aerostructures Inc.	30	Machined fittings, composite and bonded panels, tooling	Dallas	Paulding
Triumph Aerostructures-Vought Aircraft	750	Composite, fiberglass and metal bonded structures for aircrafts	Milledgeville	Baldwin
Universal Alloy Corp.	**450**	**Aluminum aerospace extrusions**	**Canton**	**Cherokee**
Universal Avionics/Instrument Division	85	Flight management systems, navigation sensors, flat integrated displays	Duluth	Gwinnett
Web Industries Inc.	110	Composite fibers for commercial and military aircraft	Suwanee	Gwinnett
Total	**4,570**			
NAICS 336419: Other Guided Missile and Space Vehicle Parts and Auxiliary Equipment Manufacturing				
Ceradyne Thermo Materials	75	Ceramic radomes or nose cones for missile systems, aerospace castable tooling	Clarkston	DeKalb
Total	**75**			
NAICS 488190: Other Support Activities for Air Transportation				
AccuFleet International Inc.	30	Exterior wash, upholstery exchange	College Park	Clayton
AeroQuest Inc.	75	Repair and refurbishment of interior cabinetry	Lawrenceville	Gwinnett
Aerospace Defense Coatings of GA Inc.	90	Anodizing and plating services for aerospace vehicles	Macon	Bibb
Aircraft Service International Group Inc.	450	Ground support equipment maintenance and fueling	Hapeville	Clayton
Augusta Aviation Inc.	**35**	**Aircraft maintenance and service**	**Augusta**	**Richmond**
Arrow Rail Corp. LLC	30	Aircraft wheel and brakes repair and overhaul	Griffin	Spalding
Aviall Services	45	Aircraft repair and maintenance	College Park	Fulton
Bombardier Aerospace	180	Maintenance, repair and overhaul (MRO)	Macon	Bibb
Chromalloy Georgia	30	Protective coating services to flight and ground power components	Lagrange	Troup
DataPath Inc.	**300**	**Avionics equipment repair and maintenance**	**Duluth**	**Gwinnett**
Delta Global Services	**110**	**Ground support equipment maintenance and fueling**	**Hapeville**	**Fulton**
Delta TechOps Division	6,643	Aircraft maintenance	Atlanta	Clayton
Dynamic Paint Solutions Inc.	92	Metal finishing process-house that tailors to the aerospace market.	Eastman	Dodge
Elite Line Services Inc.	25	Aircraft repair and maintenance	Atlanta	Fulton
Epps Aviation	140	Aircraft maintenance and service	Chamblee	DeKalb
Fokker Aerotron	85	Aircraft components repair and maintenance	Lagrange	Troup
G-Force Aerospace Technologies	133	Manufactures thermal and acoustic insulation for G400 and G500 series aircraft	Savannah	Chatham
HAECO Americas	300	Aircraft maintenance, repair and overhall	Macon	Bibb
Hawker Beechcraft Services (HBS)	100	Structural composites and sheet metal repairs; component overhaul, full interior refurbishment	Atlanta	Fulton
Integrated Airlines Services Inc.	80	Cargo and ramp handling services	Hapeville	Fulton
International Component Repair LLC	30	Repair and overhaul of aircraft components	Villa Rica	Carroll
L-3 Communications Vertex Aerospace	361	Testing support for military industry	Hunter AAF	Chatham
L3 TCS	75	Testing support for military industry	Warner Robins	Houston
Manufactured Assemblies Corp.	100	Cable assemblies and wire harnesses for the aerospace, data systems, industrial industries	Buford	Gwinnett
Northrop Grumman Corp.	376	Computer integrated systems design	Atlanta	DeKalb
Northrop Grumman Corp.	200	Satellite and broadcast network equipment manufacturing	Warner Robins	Houston
Pratt & Whitney	480	Military and commercial engine overhaul and repair	Columbus	Muscogee
Precision Avionics & Instruments Inc.	100	Aircraft repair and overhaul	College Park	Clayton
Precision Electronics LLC	85	Electronic and electromechanical accessories and instruments repair	College Park	Clayton
Precision Heliparts Inc.	60	Maintenance, repair and overhaul of helicopters	College Park	Clayton
RG Grabber Inc.	25	Steel fabrication and collision repair systems	Brunswick	Glynn
Rockwell Collins Inc.	110	Avionics equipment repair and maintenance	College Park	Clayton
Stambaugh Aviation Inc.	96	Aircraft repair and maintenance	Brunswick	Glynn
StandardAero	175	Aircraft repair and maintenance	Augusta	Richmond
TBI Airport Management Inc.	200	Provides airport management services	Hapeville	Fulton
Triumph Interiors LLC	50	Aircraft repair and maintenance	College Park	Clayton

Note: Bolded companies are headquartered in Georgia.

Company	Employment	Line of Business	City	County
Zodiac Services Americas LLC	85	Aeronautical equipment and systems mounted on commercial, regional and business aircraft and helicopters	Peachtree City	Fayette
Zodiac Services Americas LLC	85	Aeronautical equipment and systems mounted on commercial, regional and business aircraft and helicopters	College Park	Fulton
Total	**11,666**			
Suppliers to Aerospace Companies				
Arconinc Inc.	230	Custom metal products and forging services for the aerospace industry	Midway	Liberty
Edwards Interiors Inc.	200	Provides sheet metal fabrication, lathe machining, aircraft cabinetry fabrication, welding services for the aerospace industry	Rincon	Effingham
Goodyear Tire & Rubber Co./Aviation Division	61	Aircraft tire retreading	Stockbridge	Henry
JAC Products Inc.	460	Aluminum extrusions	Franklin	Heard
Nor-Ral Inc.	45	Plastic composites for the aerospace industry	Canton	Cherokee
PLAZE	100	Specialty aerosol containers	Smyrna	Cobb
Precision Machine of Savannah Inc.	80	Stamped or pressed metal machine parts, aircraft parts and equipment	Savannah	Chatham
Ryerson Inc.	300	Aluminum and precision processing for the aerospace industry	Norcross	Gwinnett
Schoen Insulation Services Inc.	75	Non-metallic machined parts	Canton	Cherokee
Schwartz Precision Manufacturing	25	Miscellaneous metal components for the commercial, industrial, and aerospace products	Macon	Bibb
Toby Sexton Tire Co. Inc.	25	Tires for construction, agriculture, and aircraft industries	Loganville	Walton
Vista Metals Corp	120	Standard and custom aluminum-lithium products for aerospace, defense, automotive and commercial customers	Adairsville	Bartow
West Cobb Engineering & Tool Co. Inc.	30	Aerospace tooling and custom aircraft fabrication	Douglasville	Paulding

Note: Bolded companies are headquartered in Georgia.

Georgia Power has been helping companies locate in our state for 90 years. We offer a full array of products and services available at no cost. To receive confidential, proven assistance, please contact one of our experienced professionals:

Doug Coffey	404-506-3416	hdcoffey@southernco.com
Walt Farrell	404-506-2243	wffarrel@southernco.com
MaryBeth Flournoy	404-506-1560	mflourno@southernco.com
Kevin Lovelace	404-506-3144	kmlovela@southernco.com
Brenda Robbins	404-506-6617	bkrobbin@southernco.com
Charles Stallworth	404-506-2312	cgstallw@southernco.com

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Georgia Power

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