

# Aerospace Industry Profile

2011





## Strong Industry Cluster

As a state, **Utah has one of the highest concentrations** of aerospace employment in the country and is home to companies like ATK, Boeing, Northrop Grumman, Lockheed Martin and General Atomics. This strong employment base provides for a wide range of local expertise and a **deep pool of highly qualified talent**.

## Educational Resources

Utah has a wealth of education resources, with **seven individual institutions** offering specialized programs in the aerospace field. Additionally, the state's Applied Technology college systems provides a steady stream of **machinist, welders and other skilled personnel** with the expertise to be valuable, contributing employees.

## Hill Air Force Base & the Utah Test & Training Range (UTTR)

Hill Air Force Base, **one of the largest military bases in the country**, and the Utah Test and Training Range (UTTR), the **largest overland** contiguous block of supersonic **authorized restricted airspace**, are both located within 100 miles of Salt Lake City. The close proximity of both of these installations allows for **easy access to military personnel** and unmatched testing and training resources.

## Rapid Integration and Acceptance Center

**The Unmanned Aircraft Systems Project Office officially opened** its Rapid Integration and Acceptance Center (RIAC) at Dugway Proving Ground, Utah, consolidating the testing of UAS payloads and technologies to allow for faster deployment to war fighters. Managed by the Army, the center is open to any military agency that needs unmanned aircraft systems technologies or payloads **quickly tested and fielded**. The Army UAS Project Office **coordinates efforts with the Marine Corps and Special Operations Command**, and anticipates working with the Navy at RIAC in the near future.

## Advanced Composites Expertise

Utah has one of the **highest concentrations of advanced composites companies** in the nation with more than **10,000 Utahns** employed by advanced composites companies. This local expertise has direct application to any aerospace company employing advanced composite materials, or utilizing advanced composite components in their end products.



## Boeing Opens New Vertical Fin Assembly Line in Salt Lake City, 2011

*Boeing has opened a new 787 vertical fin assembly line at its production facility in Salt Lake City, Utah. Operated by Boeing Fabrication, the site will build the vertical fin assemblies for 787 Dreamliners built at Boeing South Carolina. The **35,000 square foot** state-of-the-art composite assembly line will help improve the efficiency of the final assembly and delivery process at Boeing's 787 facility in South Carolina. Boeing, which employs **740 Utahns**, is adding 45 jobs immediately with the line and potentially another 120 by the end of 2012.*

## ITT to Dramatically Expand it's Utah Presence, 2011

*Governor Gary R. Herbert announced that ITT Corporation will bring more than **2,700 new jobs** to Utah over the next 15 years, several hundred of which are planned for the near future. Currently ITT employs **400 Utahns** who serve commercial and military aircraft customers. Project jobs include high technology composite manufacturing and assembly positions, as well as engineering and project/program leadership positions. New wages are estimated to be approximately **\$1.3 billion** over the term.*

## Adjusting Legislation to make Utah Even More Competitive, 2010

*In March of 2010 the Utah State Senate presented and passed **SB 073**. Bill that **exempts the Sales and Use Tax related to aircraft maintenance, repair, and overhaul (MRO)**. MRO's will **not be required to collect or pay sales tax**. Other individuals, businesses, and local governments are unaffected. Proving the tax environment will remain **favorable to aviation** encouraging continued **growth in this industry**.*

## Northrop Grumman adds 100 Jobs in Utah, 2010

*Northrop Grumman, one of the world's **largest defense** and commercial aerospace companies, opened a **52,000-square-foot expansion** to its Navigation Systems Division operations in Salt Lake City. The plant is presently is home to an engineering, manufacturing, and support **staff of 750**.*

## Alliant Techsystems (ATK) adds 800 jobs in Utah, 2010

*The state of Utah is happy to announce the new ATK composites campus to serve **commercial airframes**, classified military programs, and commercial engine structures manufacturing facility in Clearfield City, Davis County. ATK's expected initial capital investment will be **\$100 million** with significant future investments. Employing over **800 new full-time positions**.*

# Utah's Leading Aerospace Companies



Name	Location	Size	Description
Hill Air Force Base	Davis County	20,000+	An Air Force Material Command base providing logistics and engineering management, including composites.
ATK	Clearfield	5,000 to 9,999	Designs and manufactures advanced weapon and space system equipment.
Sky West Airlines Inc.	St. George	1,000 to 4,999	Largest regional airline company in the U.S.
L3 Communications	Salt Lake City	1000 to 4999	Communications is a prime federal contractor in Command, Control and Communications.
Boeing Company	Salt Lake City	500 to 999	Manufactures commercial aircraft, aircraft equipment and integrated defense systems.
Northrop Grumman	Salt Lake City	500 to 999	A worldwide defense company
Parker-Hannifin Corporation	Ogden	500 to 999	Manufactures aircraft motion control systems and related components.
Salt Lake City Airport Authority	Salt Lake City	500 to 999	International airport services and city government transportation programs.
FMC Jetway Systems	Ogden	250 to 499	Manufactures airport equipment and supplies.
Hexcel Corporation	Salt Lake City	250 to 499	Manufactures the nation's largest amount of carbon fiber and fiberglass electronic materials and products.
Northrop Grumman	Clearfield	250 to 499	Designs and manufactures military aircraft, defense systems and military aero structures.
Petersen, Inc.	Ogden	250 to 499	Manufactures guided missile components and space vehicles.
Barnes Aerospace	Ogden	100 to 249	Manufactures components for the compressor, combustor and turbine sections of jet engines.
Dal Global Services	Salt Lake City	100 to 249	Aircraft servicing and maintenance.
Kitco, Inc.	Springville	100 to 249	Manufactures and distributes military aircraft and ship parts.
Klune Industries	Spanish Fork	100 to 249	Manufactures assembled components for the military and commercial aerospace sectors.
Lockheed Martin Corporation	Layton	100 to 249	Creates software programs to provide solutions for technological problems for several business sectors, including space systems.
Metalcraft Technologies, Inc.	Cedar City	100 to 249	Manufactures a broad range of precision machined components for the aerospace industry.
Million Air	Salt Lake City	100 to 249	Aircraft charter rental and leasing, scheduled air transportation and aircraft service and maintenance.

# Utah's Leading Aerospace Companies



Name	Location	Size	Description
Triumph Gear Systems	Park City	100 to 249	Manufactures and engineers high-quality components and systems for aerospace and actuation applications.
Wencor West Inc.	Springville	100 to 249	Manufactures aircraft equipment, parts and supplies.
Williams International	Ogden	100 to 249	Develops and manufactures small gas turbine engine technology.
Advanced Composites, Inc.	Salt Lake City	50 to 99	Produces composite structures emphasizing high-performance composite tubing through filament winding.
Aerospace Engineering & Support	Ogden	50 to 99	Designs, develops, manufactures, tests and evaluates aircraft parts, systems and equipment.
Aerospace Support Technologies	Davis County	50 to 99	Provides aircraft training devices, instruments, gas turbine engines, power equipment systems, and software development and support.
Ceramatec	Salt Lake City	50 to 99	Focuses on R&D in advanced materials and electrochemistry.
Groen Brothers Aviation, Inc.	Salt Lake City	50 to 99	Develops high performance gyroplanes and gyrodynes using advanced composite materials.
ITT / EDO Fiberscience	Salt Lake City	50 to 99	Manufactures and designs lightweight advanced fiber-reinforced composite products.
General Atomics	Salt Lake City	50 to 99	Research into fission and fusion has matured into competence in many technologies
Zoltek Corporation	Salt Lake City	50 to 99	Manufactures carbon fiber and advanced composite prepregs for individual / recreational applications.
Rockwell Collins	Salt Lake City	20 to 49	A supplier of aircraft electronics to the military

## Utah's Top Five Airports

Rank	Name	Runway Length (Feet)	Control Tower
1	Salt Lake City International Airport	12,004	Yes
2	St George Airport	9,300	No
3	Logan-Cache Airport	9,045	No
4	Provo Municipal Airport	8,599	Yes
5	Ogden Hinckley Airport	8,103	Yes

# Utah's Aerospace Industry Business Case



	Utah	Washington	Kansas	California	South Carolina	Colorado
<b>Mean Wages: Title (SOC code)</b>						
Aerospace Engineers (17-2011)	\$88,080	\$92,210	\$88,780	\$107,710	\$93,380	\$95,280
Aerospace Op. Technicians (17-3021)	\$53,240	\$60,340	\$55,430	\$59,320	\$57,960	\$63,960
Aircraft Mechanics Technicians (49-3011)	\$51,160	\$56,190	\$49,570	\$58,500	\$48,770	\$53,960

Source: Bureau of Labor Statistics

<b>Real Estate (\$/sq.ft. annual)</b>						
Class A Office	\$25.17	\$23.00	\$28.50	\$32.31	\$24.50	\$28.11
R&D	\$6.50	\$12.00	\$7.55	\$6.19	\$7.00	\$10.71
Industrial	\$3.84	\$3.85	\$3.86	\$6.31	\$3.75	\$4.35

Source: NAI Global

<b>Unemployment Insurance</b>						
New Employer Rate (% of salary)	1.20%	1.38%	4.00%	3.40%	2.64%	1.70%
Taxable Wage Base	\$28,600	\$35,700	\$8,000	\$7,000	\$10,000	\$10,000
Duration of New Employer Rate (years)	1	2	2	1	2	n/a
New rate after "duration" with no lay-offs	0.20%	1.00%	2.13%	1.50%	1.14%	1.70%

Source: US Dept. Of Labor

<b>Health Insurance</b>						
Single Coverage	\$3,485	\$4,283	\$3,336	\$3,836	\$3,605	\$3,599

Source: Kaiser Family Foundation

<b>Utilities</b>						
Electricity (¢/kWh) <i>Industrial</i>	¢4.16	¢3.98	¢6.15	¢10.33	¢5.69	¢6.91
Natural Gas (\$/1000 Feet <sup>3</sup> ) <i>Industrial</i>	\$5.62	\$9.43	\$5.30	\$10.80	\$11.06	\$5.84

Source: Energy Information Administration

# Utah's Important Aerospace Industry Contacts



Name	Organization	Contact	Description
Gary Harter	Governor's Office of Economic Development	801-538-8784	The Governor's Office of Economic Development charter is based on Governor Herbert's commitment to economic development statewide.
Marshall Wright	Governor's Office of Economic Development	801-538-8710	The Governor's Office of Economic Development charter is based on Governor Herbert's commitment to economic development statewide.
Fred Lange	PTAC	801-538-8733	Utah Procurement Technical Assistance Centers (PTAC) help businesses with all phases of Government contracting -federal, state, and local.
Mike Blair	ATK	801-775-1722	Designs and manufactures advanced weapon and space system equipment, one of the largest employers in the state of Utah.
Steve Rogers	SAMPE	801-536-6203	The Society for the Advancement of Material and Process Engineering (SAMPE), provides information on new materials and processing technology either via technical forums, journal publications, or books in which professionals in this field can exchange ideas.
Maureen Riley	Salt Lake International Airport	801-328-8996	Salt Lake City International Airport is located five miles northwest of downtown Salt Lake City, and is the largest airport in the state.
Byard Wood	Utah State University	435-797-2868	USU houses the largest accredited Mechanical and Aerospace Engineering program in the state. Producing about 50 graduates annually
Joyce Peters	Hill Air Force Base	801-430-2768	One of the largest Air Force bases in the US employing nearly 23,000 civilians and military personnel combined.
Brian Williamson	Salt Lake Community College	801-957-4448	SLCC's aviation maintenance program is located on the east side of the Salt Lake City International Airport at the Airport Center and produces 30 graduates annually
Gregory Schwab	Utah Valley University	801.863.7830	UVU has the largest Aviation Science program in the state producing nearly 200 graduates annually
Gerry Fairbairn	Westminster College	801-484-7651	Westminster is a private liberal arts college that has an aviation program that provides the foundation that prepares students to enter into an aviation career.
Ed Rich	Ogden-Hinckley Airport	801-629-8251	Ogden-Hinckley Airport is Utah's busiest municipal airport. More than 400 General Aviation airplanes call the facility home.
Rick Crosman	St. George Airport	435-627-4080	The newest and Second largest airport in Utah and is the airport closest to the southern state border of Utah.



## For More Information:

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