

ADVANCED TECHNOLOGY HELPS AEROSPACE SOAR IN WISCONSIN®



WHY AEROSPACE COMPANIES CHOOSE WISCONSIN

Companies looking to start, relocate or expand their operations in Wisconsin benefit from the state's central location, reliable infrastructure, talented workforce and business-friendly policies—all of which create competitive advantages that help businesses capitalize upon regional, national and global market opportunities.

Wisconsin's long history of innovation continues to fuel new solutions to challenges facing people, companies, nations and our very planet, with some of the most respected companies in the world drawing upon Wisconsin's plentiful natural resources, renowned research capabilities and the can-do spirit of its citizens to grow and succeed.



The average aircraft contains hundreds of thousands of parts from hundreds of different suppliers. A national leader in advanced manufacturing, Wisconsin excels especially in the aerospace supply chain: more than 140 Wisconsin suppliers work with Boeing, providing the parts to get aircraft ready for takeoff. Over 200 Wisconsin companies have ties to the state's aerospace sector,¹ and more than 24,000 people are employed in Wisconsin by companies that support the aerospace manufacturing sector.²

What's more, Wisconsin is drawing attention from aerospace executives for its cutting-edge research and development in nanotechnology; engineering, power and control systems; and composite materials. Wisconsin offers aerospace manufacturers the infrastructure and talent necessary to reach the highest levels of production and operational excellence.

Fueling Wisconsin's ascension as a leader in aviation and aerospace innovation are its world-class university and technical college systems. Engineering and research programs in our statewide universities are providing solutions to industry challenges, including those faced by NASA. The result is a rapidly developing center of aviation and aerospace excellence in Wisconsin around which new business development opportunities are forming. The data that follow capture the benefits Wisconsin offers to aerospace companies looking to maximize their success.

¹ Companies identified through proprietary and public database sources and OEM qualified supplier lists

² Infogroup, 2016

³ Bureau of Labor Statistics, QCEW, Annual 2016 employment

⁴ Bureau of Labor Statistics, Quarterly Census of Employment and Wages

Wisconsin ranks #2 nationwide in manufacturing employment concentration. Wisconsin is the only state in the nation with four manufacturing subsectors ranked #1 in employment concentration: electrical equipment, appliance and component manufacturing; fabricated metal product manufacturing; printing and related support activities; and paper manufacturing.³ Wisconsin has seen continuing growth in many manufacturing subsectors, including commercial and service industry machinery manufacturing, household appliance manufacturing and electric lighting equipment manufacturing, each of which witnessed an employment increase above 20 percent from 2012 to 2016.⁴



Photo courtesy of EAA

TALENT

Wisconsin is well known for its industrious, Midwestern work ethic, and its educational system is universally admired. Wisconsin's high school graduation rate is consistently ranked among the top in the nation, and the University of Wisconsin System is regularly cited as a leader in terms of size and quality.

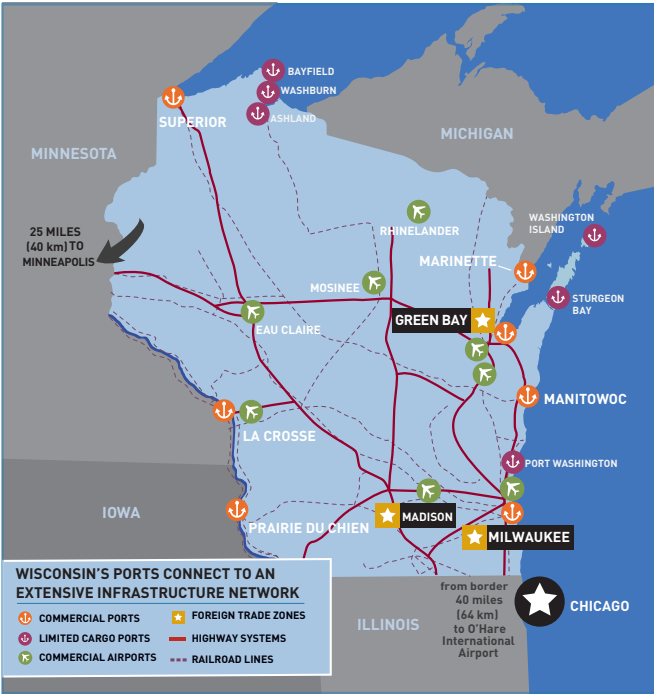
Wisconsin's public and private colleges support the resources, companies and policy makers throughout the state that are working to develop new, innovative products to fulfill market needs. And as the first state in the nation to develop a technical college system, Wisconsin has more than 100 years' experience training its workforce to fulfill ever-changing industry demands.

INFRASTRUCTURE

Wisconsin's central location and robust infrastructure give companies operating in the state one-day access to major markets throughout the U.S. and beyond. Wisconsin's roads, railways and ports provide seamless, convenient access to the world's busiest multimodal transportation hub, located just 55 miles south of the state's border.



Companies identified through proprietary and public database sources and OEM qualified supplier lists



INFRASTRUCTURE IN WISCONSIN

- 09 HIGHWAY SYSTEMS**
State commerce and industry relies on nine major highways covering more than 11,800 miles (18,990 km) to move our goods to market. Our interstate system connects us to major industrial cities across the U.S.
- 13 RAILROAD LINES**
Rail traffic throughout the state continues to grow and move more than \$122 billion in freight each year, creating a seamless link in the nationwide intermodal system. Amtrak travels between Chicago and Milwaukee multiple times daily.
- 08 COMMERCIAL AIRPORTS**
Eight commercial airport locations serving major industrial and metropolitan areas statewide. These airports are served by all major carriers, linking to every point in the nation within one business day. In addition, these larger airports are within driving distance:
CHICAGO: O'Hare is American's second largest hub, with 963 domestic flights daily to 153 U.S. cities and more than 100 direct flights daily to 55 international destinations.
MINNEAPOLIS: 135 nonstop flights including 115 domestic and 20 international markets.
- 13 COMMERCIAL PORTS**
Uniquely situated on the nation's greatest waterways, Wisconsin ships 39 million ton of product from commercial cargo ports and 6 limited cargo ports located along Lake Michigan, Lake Superior and the Mississippi River.
- 03 FOREIGN TRADE ZONES (FTZ)**
Companies located in one of our three Foreign Trade Zones (FTZs) can import merchandise (by truck, rail, air or boat) without going through formal customs entry procedures or paying import duties. These companies have the option to pay tariffs after their product inventory is sold, improving cash flow and saving money. Other benefits include, but are not limited to: global market competitiveness, minimized bureaucratic regulations, and improved supply chain efficiencies.

INDUSTRY LEADERSHIP

A LANDMARK ANNUAL EVENT

Wisconsin's annual **EAA AIRVENTURE** event brings in more than 500,000 aviation enthusiasts from over 80 countries. This premier airshow exposes visitors to the latest aviation innovations while creating a forum for discovery for industry participants. The event attracts corporate leaders, enthusiasts and government officials, providing education and entertainment to all. AirVenture is a true Wisconsin summer highlight that showcases the state's dedication to the aerospace industry as well as its spirit. The Experimental Aircraft Association, which hosts AirVenture, is headquartered in Oshkosh, and for one week each year, the Oshkosh airport becomes the busiest in the world.

The Washington, D.C.-based General Aviation Manufacturing Association has selected Wisconsin as the location of its **AEROSPACE AND CYBERSECURITY CENTER OF EXCELLENCE**. The new center will focus on embedded integrated technologies and cybersecurity applications. Wisconsin companies are donating simulators for conducting research and testing on topics such as how to protect flight navigation systems from being hacked. Although Milwaukee-based Astronautics will be the primary user, the simulator will also be available for use by other Wisconsin companies, as well as students pursuing education in aerospace, engineering and computer science.



Wisconsin Lt. Governor Rebecca Kleefisch was recently named the chair of the **AEROSPACE STATES ASSOCIATION (ASA)**, a bipartisan organization of lieutenant governors and delegates appointed by

U.S. states. The organization was formed to promote a state-based perspective in federal aerospace policy development and support state aerospace initiatives that enhance student/teacher education, outreach and economic development opportunities. Recognizing that aviation and aerospace competitiveness is vital to U.S. economic security and wellbeing, the ASA aims to mobilize industry within its member states, work with federal agencies, inform the media and bring together state Congressional delegations. Among other current initiatives, the ASA is working with Intelligent Manufacturing Systems, an international industry group focused on research and development as well as innovation, to develop a series of workshops to help U.S. manufacturers improve their productivity by implementing Industry 4.0 processes.



WISCONSIN AEROSPACE PARTNERS supports organizations engaged with the aerospace industry in Wisconsin by establishing a strong network and support system designed to grow the economic vitality of the state and the aerospace industry. With grant funding from the Wisconsin Economic Development Corporation, the organization will be conducting a detailed analysis of the companies that make up Wisconsin's aerospace and aviation sector and creating a plan for the sector's future development so that technical resources can be aligned to assist Wisconsin companies to excel in the industry.

AeroInnovate™

AEROINNOVATE, formed in Wisconsin in 2007 by a small group of aerospace visionaries at the University of Wisconsin-Oshkosh, further distinguishes the state's industry leadership. This program helps aerospace innovators around the world—from investors and entrepreneurs to researchers and academics—connect, share and commercialize their ideas.

Along with other states, Wisconsin's aerospace cluster is working with the U.S. Economic Development Administration to develop a **GREAT LAKES AEROSPACE CONSORTIUM**. Wisconsin and Ohio have been identified as the pilot sites, due to assets such as the Ohio Aerospace Institute and the Cleveland-based NASA Glenn Research Center (in Ohio) and EAA AirVenture, AeroInnovate and Wisconsin Aerospace Partners (in Wisconsin), as well as academic assets in both locations. At each pilot site, area companies will be able to work closely with leading researchers and access state-of-the-art equipment to pursue innovation that further advances the industry in the Great Lakes region.

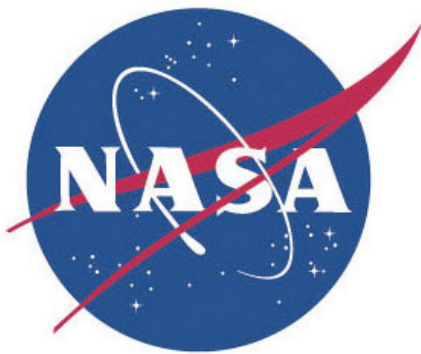


SIERRA NEVADA CORPORATION (SNC) operates a non-toxic rocket engine test facility in the former Badger

Ammunition Plant, a state-of-the-art facility that enables testing of small-to-medium rocket engines for government and private sector needs. The facility has multiple test cells with the capacity for testing hybrid and liquid rocket engines. SNC's smaller engines provide up to 1,000 pounds of thrust for guidance of vehicles and spacecraft in orbit and at high altitude. Planning is under way for next-generation engines to support entry into orbit at about 50,000 pounds of thrust.



High school, undergraduate and graduate students had the chance to discover internship and career options, as well as academic program options, at the inaugural Aerospace Jam event held at the Bradley Center in Milwaukee.



In October 2017, the Wisconsin Economic Development Corporation, the Wisconsin Aerospace Partners, the Greater Oshkosh Economic Development Corporation, and the NASA Wisconsin Space Grant Consortium collaborated to host an event that brought together aerospace companies with high school, undergraduate and graduate students to give the students a chance to learn how STEM education can prepare them for career opportunities in aerospace and aviation. Held in conjunction with a Milwaukee Bucks basketball game, the event drew more than 300 attendees, giving students the opportunity to explore career and college program options and to learn from an expert panel including scientists and executives about the path to aerospace industry success.

WISCONSIN ranks above the national average for employment concentration in nine different professions relating to aerospace:

- Industrial engineers
- Machinists
- Maintenance and repair workers
- Tool and die makers
- Electrical and electronic equipment assemblers

Metal and plastic

- Computer numerically controlled programmers
- Lathe and turning machine tool setters
- Grinding/lapping/polishing/buffing setters
- Multiple machine tool setters

Wisconsin has some of the highest employment concentrations in the nation for the following manufacturing subsectors:

#1 IN THE U.S. FOR EMPLOYMENT CONCENTRATION

- Fabricated metal product manufacturing
- Electrical equipment, appliance and component manufacturing

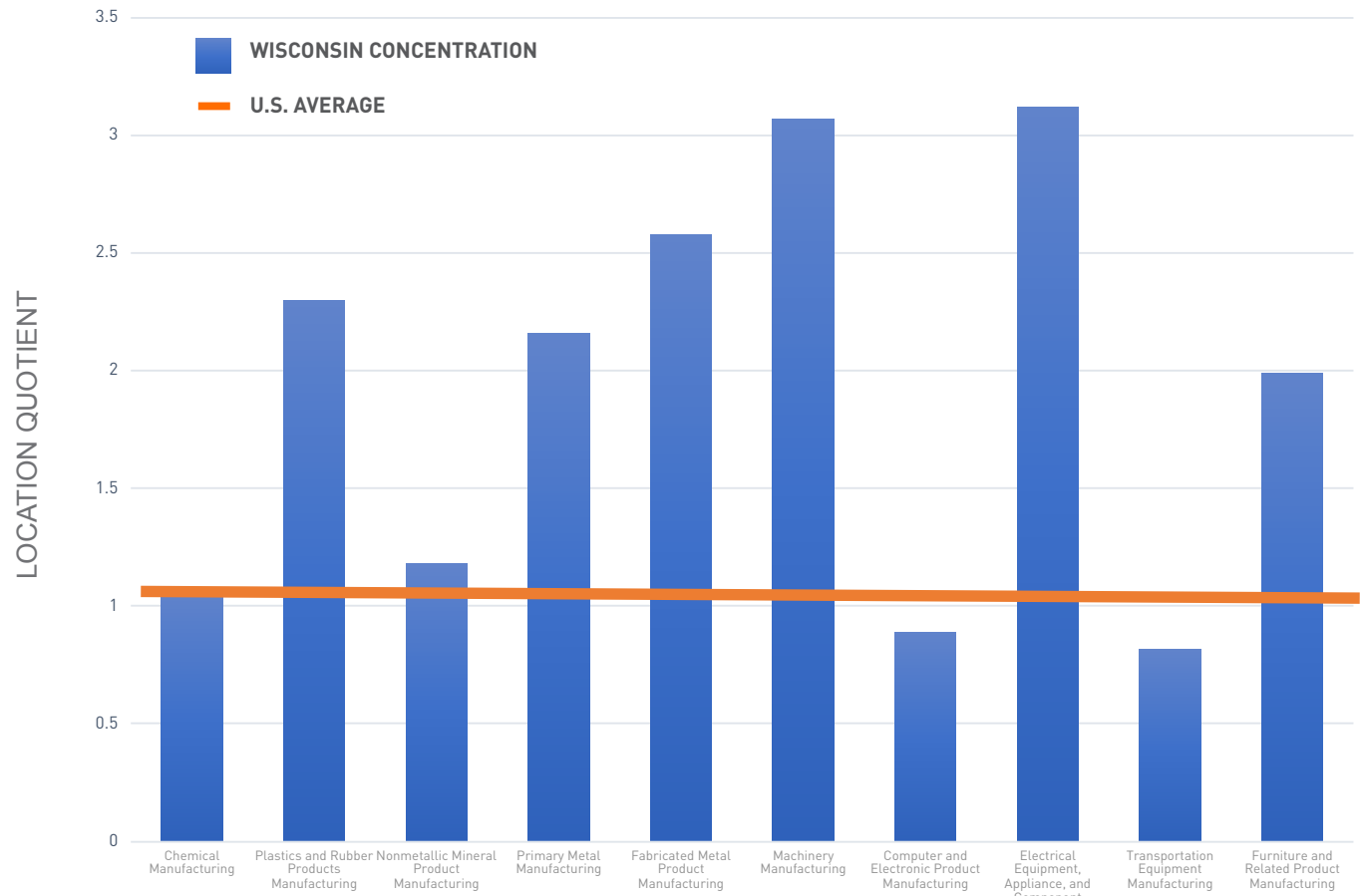
#2

- Machinery manufacturing
- Plastics and rubber products manufacturing

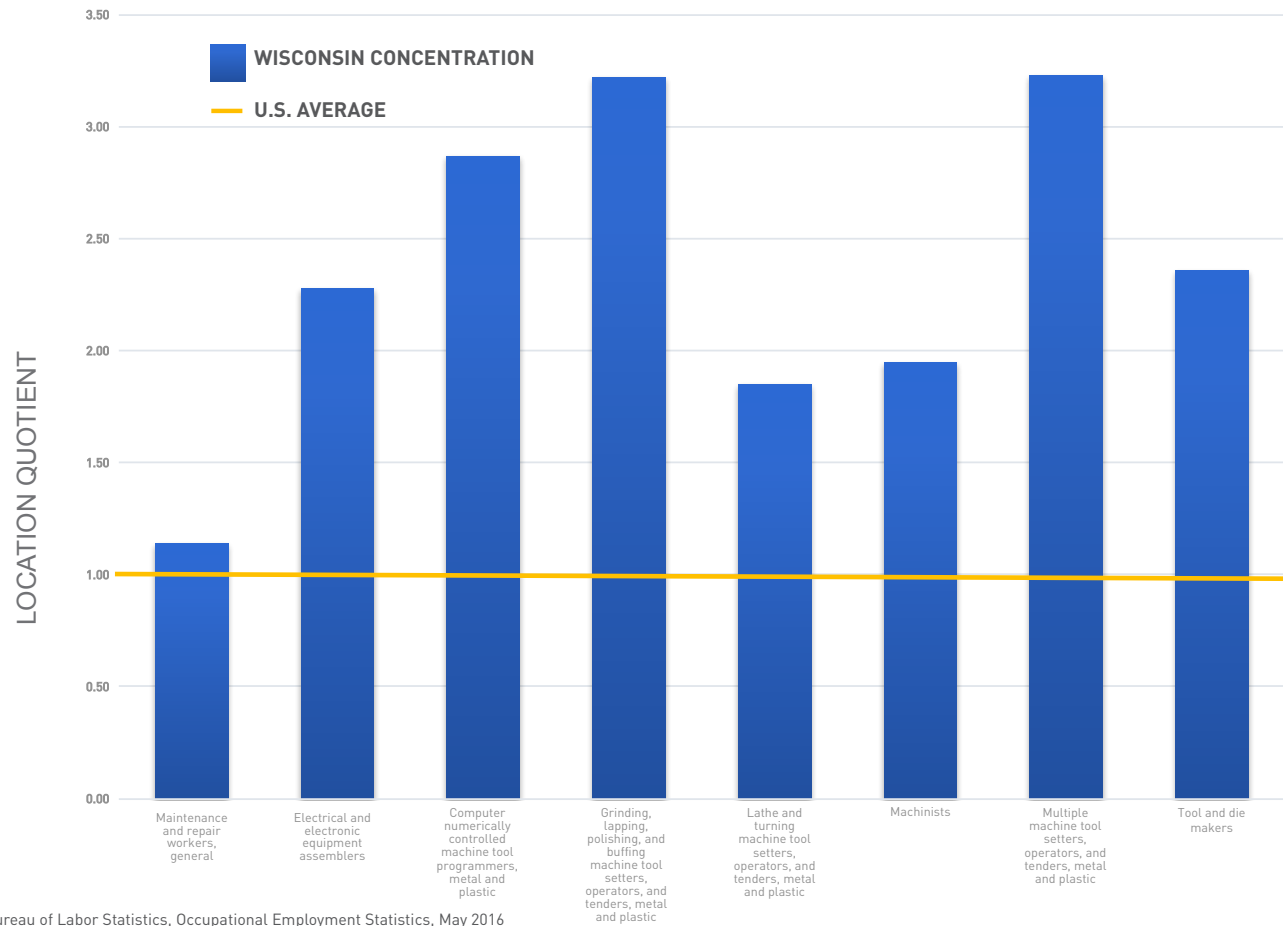
Wisconsin also compares favorably to other states in nonmetallic mineral product manufacturing.

Source: Bureau of Labor Statistics, Quarterly Census of Employment and Wages, Annual 2016 Employment

WISCONSIN MANUFACTURING EMPLOYMENT CONCENTRATION



EMPLOYMENT CONCENTRATION IN OCCUPATIONS RELEVANT TO AEROSPACE



Source: Bureau of Labor Statistics, Occupational Employment Statistics, May 2016

CONCENTRATED EXPERTISE: WISCONSIN COMPANIES ACTIVE IN AEROSPACE

4 Imprint Inc
Ace Precision Machining
Adron Tool Corp
Advanced Engines Development
Advanced Wire Edm LLC
AED Superstore
Aero Fabricators Inc
Aero Medical Products
Aero-Metric Inc
Aeromotors LLC
Air Cargo Carriers Inc
Air Space Inc
Aldrich Chemical Co
All Metal Stamping Inc
Amalga Composites Inc
Amera Gear Co
American Champion Aircraft
American Rotary
ANT North America Inc
Apex Embedded Systems
Applied Fab & Machining
Arbon Equipment Corp
Associated Spring
Astronautics Corp Of America
ATI Forged Products
Automated Vision LLC
Avalon Precision Casting Co
Aviation Resources
Avitek Aerospace Industries
Aztalan Engineering Inc
B/E Aerospace
Badger Paperboard
Baily Cranes
Barton Precision Components
Basler Turbo Conversions LLC
Bloomer Plastics Inc
Brady Corp
Brandt Innovative Technologies
Bruker AXS Inc
Bushman Equipment Inc
Carlisle Interconnect Tech
Cecor Inc
Cessna Aircraft Co
Cizion Metal Engineering
Comply365
Computherm LLC
Copper Beryllium Alloys
Cordstrap USA Inc
Cotta Transmission
Custom Fiberglass Molding
Cycogs LLC
D & K Coating Technologies
D D Sling & Supply
Davis Steel Building Inc
Dawley Aviation Corp
Dedicated Computing
Deltahawks Engines
Derco Aerospace Inc
Donaldson Co
Drs Power Control Technologies
D'Shannon Aviation
Ducommun LA Barge Technologies
Dynamic Displays Inc
Dynatect Manufacturing Inc
Dynatronix Inc
Eagle Fuel Cells Etc Inc
Eaton Corp
Eck Industries Inc
Eckmann Custom Metal Stamping
Electrotek Corp
Ellsworth Adhesives LTD
Elwood Corp
Emteq Aerospace Inc
Engineered Propulsion Sys
Esker Technologies
Esterline Control-Comm Avista
Euro-Tech Corp
Extreme Engineering Solutions

Fischer USA Inc
Five Star Plastics
Five's Giddings & Lewis
Flitz International LTD
Focused Solutions
Fox Valley Tool & Die Inc
Frederick T Elder & Assoc
Gales Manufacturing Corp
GFS Machining Inc
GILMAN USA LLC
Giuffre Bros Cranes Inc
Global Finishing Solutions LLC
Goodrich Corp
Gulfstream Aerospace Corp
Helicopter Specialties Inc
Hentzen Coatings Inc
Honeywell
Hudapack Heat Treating
Impreglon Cellramic
Inklein ENGINEERING LLC
Instrument Development Corp
Iseli Co
J W Winco Inc
Jade Electronics Inc
Jet Air Group
Jet Machines Extreme
JET Technologies
Johnson Controls Inc
Jt Packard
Kenosha Aero Inc
KLH Industries Inc
L K Precision Co
LaCrosse Technologies
Latitude Corp
Libert Machine Corp
M2m Machining
Man Lift Manufacturing
Marine Travelift Inc
Materion Advanced Chemicals
Mayville Engineering Co Inc
MBD Wheel & Brake Repair & Svc
Mcnally Industries LLC
Metal Improvement Co
Metal Working Systems
Metatek International
Middleton Research
Midwest Thermal Vac Inc
Miller Machine LLC
Morey Airplane Co
Moxness Products Inc
MTI Electronics Inc
MTX/Oaktron
Multicircuits Inc
Myers Aviation Inc
National Rivet & Mfg Co
NDT Solutions
NEL Frequency Controls Inc
New View Technologies
Nobles Worldwide Inc
Norco Manufacturing
Northwire Nwi Lab360
Omega Industrial Products Inc
ORBIS
Orbital Technologies Corp
Owens Industries Inc
P T F German Precision
Patriot Taxiway Industries Inc
Pentair Flow Technologies
Pho-Tronics
PIC Wire & Cable
Pierce Manufacturing Inc
Pilot Training Systems
Plasma Coatings
Plastic Molded Concepts Inc
Plexus Corp
Plymouth Tube Co
Pounte Precision Inc
Precision Machine Inc

Precision Plus
Precision Screw Thread Corp
Precision Welding & Machine
Premier Engineering & Mfg Inc
Proto One Mfg LLC
Prototype Solutions Group Inc
Quality Assembly & Logistics
Quantum Devices
R Stresau Laboratory Inc
Radyne Corp
Rapco
Reich Tool & Design Inc
Representative Travis Tranel
Rex Systems
Rexnord Industries LLC
Riverside Machine & Engrng Inc
Rockwell Automation Inc
Rolite Co
Runzheimer International LTD
S 3 Repair Svc LLC
SBS-Storage Battery Systems
Schenck Process
Schunk Graphite Technology
Scooter Software
Senior Flexonics Ga PRECISION
Servo Instrument Corp
Skycom Avionics Inc
Slipstream International
Snap-On Industrial Brands
Softwareone Inc
Sonex Aircraft
Sonoplot Inc
Specialty Coating Systems
Spectra A-M Assoc
Spirit Manufacturing Inc
Standex International Corp
Stanley Aircraft Engine Svc
Sterling Aviation
Strohwig Industries
Sullivan Manufacturing Corp
Swiss-Tech LLC
Synchrotek Inc
TAB Products Co LLC
Tanis Brush
Target Corp
Taurus Tool & Machine
Team Industrial Svc Inc
Tecomet Inc
Teklynx Americas Inc
Telford Aviation Inc
Thermach Inc
Thermal Spray Technologies Inc
Thermo Fisher Scientific Inc
Therm-Tech Of Waukesha Inc
Tip Technologies
Topper Inc
Traceamatic
Trace-A-MATIC Corp
Tracer Repair & Overhaul Inc
Tri City Mfg Co Inc
Trico Corp
TUG Technologies
Turbine Technologies LTD
U-Fuel Inc
U-Line Corp
United Gear & Assembly Inc
UTC Aerospace Systems
Vanguard Aerospace
VTI Vacuum Technologies Inc
W M Berg Inc
Wag Aero
Walker Stainless Equipment Co
Watson Industries Inc
Waukesha Foundry Inc
Waukesha Metal Products LLC
West Bend Air Inc
Whitney Fiber Glass
Wi 2 Wi & Precision Devices
Winona Pattern & Mold
Winslow Engineering Inc
Wisconsin Metal Parts Inc
Wisconsin Oven Corp
Woller Precision Machine LLC
Zen's Manufacturing Inc

CUTTING-EDGE ACADEMIC PROGRAMS AND INDUSTRY-ACADEMIC COLLABORATIONS



Wisconsin is home to 17 engineering-related schools, with training that spans from engineering certificates awarded by two-year technical colleges to doctoral degrees at four-year institutions. With programs that range from mechanical design and industrial mechanics to four-year programs in electrical engineering, mechanical engineering, computer engineering and industrial engineering, students are learning the skills necessary to compete and be successful in the global economy.



The **SPACE SCIENCE AND ENGINEERING CENTER (SSEC)** at the University of Wisconsin-Madison is a research and development center focusing on geophysical research and technology to enhance understanding of the earth's atmosphere, the other planets in the solar system, and the cosmos. The center develops and demonstrates new observing systems for spacecraft, aircraft and ground-based platforms. It receives, manages and distributes significant amounts of geophysical data and develops software to visualize and manipulate these data to gain insight into weather and climate, as well as atmospheric processes and phenomena. In addition to conducting its own research, producing algorithms, creating products and improving forecast models, the center is committed to sharing its efforts, tools and knowledge with the larger research community and scientists around the world.



UNIVERSITY of WISCONSIN-MADISON The **ADVANCED MATERIALS INDUSTRIAL CONSORTIUM** gives commercial partners the opportunity to collaborate with students and faculty in advanced materials research across the UW-Madison campus. The consortium facilitates interactions through meetings and open house events, B2B networking opportunities, early access to student and postdoctoral researchers, facilitated access to shared instrumentation, sponsored research, facilities use agreements, a fellowship program and consulting opportunities.

The **ENVIRONMENTAL REMOTE SENSING CENTER**, also part of the SSEC, was one of the first remote sensing facilities in the U.S. Since its establishment in 1970, it has been highly regarded internationally for the development and application of cutting-edge remote sensing and geospatial technologies to improve the understanding of environmental systems.

The **CENTER FOR QUICK RESPONSE MANUFACTURING** is a partnership between companies, faculty and students at UW-Madison dedicated to the research and implementation of lead time reduction principles. Its goal is to help member companies reduce lead times in all areas of their operations to become more efficient and profitable in the increasingly competitive global marketplace.

The **WISCONSIN CENTER FOR APPLIED MICROELECTRONICS (WCAM)** at the UW-Madison College of Engineering provides a research facility for microfabrication technologies, products and innovations. Continuous improvements to this advanced laboratory give students a state-of-the-art education and maintain leading-edge research programs. WCAM maintains a suite of semiconductor and microfabrication processing equipment in a cleanroom laboratory, with community and industry as well as university access for approved users.



The **COOPERATIVE INSTITUTE FOR METEOROLOGICAL SATELLITE STUDIES**, part of the SSEC, conducts cutting-edge research while fulfilling its three-part mission to foster collaboration among NOAA, NASA and the University; serve as a center of excellence in weather and climate studies; and train the scientists and engineers of today and tomorrow.

IN 2016, **WISCONSIN'S COLLEGES AND UNIVERSITIES** AWARDED MORE THAN



4,000
ACADEMIC DEGREES

IN ENGINEERING AND ENGINEERING TECHNOLOGY FIELDS, INCLUDING CERTIFICATES, ASSOCIATE DEGREES, BACHELOR'S AND ADVANCED DEGREES.

Source: National IPEDS database published by the U.S. Department of Education's NCES



The **GRAINGER INSTITUTE FOR ENGINEERING** serves as an incubator for trans-disciplinary research conducted in the UW-Madison College of Engineering. The institute is designed to allow the college to be nimble in

identifying critical research areas and rapidly growing those areas into self-sustaining thrusts. Currently, researchers in the institute are focusing on advanced manufacturing and materials discovery and sustainability.



The UW-Milwaukee **CENTER FOR COMPOSITE MATERIALS AND SOLIDIFICATION PROCESSING LABORATORY** was established to provide a link between the materials processing industry and UW-Milwaukee and to serve as a resource for the development of advanced composite materials. The main missions of the center include education and training of engineers to supply industry; research and development of new composite materials and processing methods; and outreach to the community at large to encourage and facilitate the development and use of composite materials. Current research efforts include the solidification synthesis and characterization of metal matrix-nanoparticle and nanotube composites; aluminum-silicon carbide composites for lightweight brake rotors and computer components, currently being manufactured at Eck Industries in Wisconsin; composites with improved machinability and self-lubricating composites; ultralight metals incorporating hollow microballoons that have applications in automotive and small engines, as well as in the biomedical industry; and active and self-healing metal matrix micro- and nanocomposites.

The **LABORATORY FOR SURFACE STUDIES** works to recognize, facilitate and encourage experimental and theoretical research by UW-Milwaukee scientists on the physical properties of surfaces and systems with reduced dimensionality at the nanoscale. Its facilities include an advanced analysis facility that provides broad analytical service in materials analysis (e.g., x-ray diffraction (XRD), electron spectroscopy for chemical analysis, scanning electron microscopy, atomic force microscopy, Fourier transform infrared spectroscopy and Raman spectroscopy); a single crystal preparation laboratory; synchrotron-based infrared microscopy; scanning electron microscopes; a high-resolution transmission electron microscopy lab; a magnetic properties measurement system; an MBE-STM system; a VG 4" MBE system; an AFM/STM chamber; a RAIRS chamber; a LEIS/LEED high-pressure cell chamber; a UHV tribometer; and an XPS chamber.

The **WISCONSIN REGIONAL MATERIALS AND MANUFACTURING NETWORK**, a collaborative effort among nine UW campuses with industry partners, works to enhance research, education and industrial development in materials science.

The **MILWAUKEE INSTITUTE** is an independent, nonprofit research, education and public policy organization whose goals are to provide world-class technical computing, storage, communications and collaboration facilities in support of economic development through scientific, engineering and technology leadership in the Great Lakes region, and particularly in southeast Wisconsin. The institute holds the largest publicly accessible supercomputing resource of its kind in the state, and is the exclusive provider of high-speed computing services for UW-Milwaukee's Innovation Campus, allowing users to simulate, model, visualize and analyze complex applications in areas ranging from product development to engineering and research.

The Federal Aviation Administration's **CENTER OF EXCELLENCE FOR TECHNICAL TRAINING AND HUMAN PERFORMANCE**, which combines the efforts and resources of two dozen universities across the U.S., aims to develop solutions that lead to stronger personnel and safer, more efficient air transportation throughout the nation. Christopher Johnson, a professor of industrial and systems engineering at UW-Milwaukee, was chosen to be one of the initiative's principal investigators because of his research on cutting-edge technology for virtual training software.



The Wisconsin Manufacturing Extension Partnership's **SUPPLY CHAIN ADVANTAGE PROGRAM** brings improvement services to suppliers in order to enhance the performance of small and midsize suppliers to OEMs and military contractors.

WISCONSIN

ASTRONAUTICS

Milwaukee

Founded and headquartered in Milwaukee, with 1,400 employees. Key product areas include displays, servers and computers, system integration and custom software for critical aerospace and defense applications. Serves all the major aerospace manufacturers and suppliers, the U.S. government, more than 85 airlines and 90 percent of the world's defense and security forces.

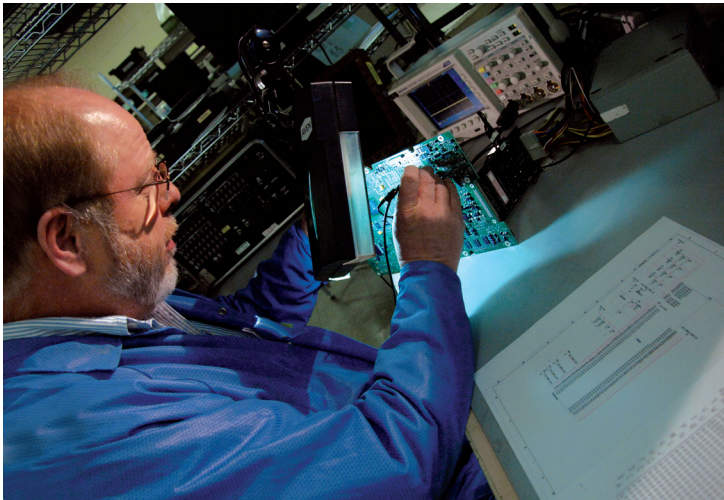


Photo courtesy of Astronautics

DERCO AEROSPACE

Milwaukee

Founded in Wisconsin and acquired in 2015 by the Sikorsky division of Lockheed Martin, Milwaukee-based Derco provides logistics and technical support for fixed-wing aircraft. The company is an industry leader, offering a suite of fleet management solutions including spares distribution, logistics solutions, repair and overhaul services and technical solutions. Derco supports global military efforts in over 65 countries and maintains one of the largest and most diversified aircraft spares inventories in the world, with more than 75,000 unique parts in stock.

ROCKWELL COLLINS

New Berlin

Founded in Wisconsin as Emteq; through a series of mergers and acquisitions, became part of B/E Aerospace, representing its internal lighting system division in three locations, then was acquired by Rockwell Collins and later UTC. New Berlin remains the primary location for R&D and product testing. Globally, B/E Aerospace has operations in the U.S., Canada and Switzerland, with operational headquarters in Florida.



Photo courtesy of EMTEQ

UTC

Peshtigo

The Wisconsin facility was formerly part of DeCrane, which in 2015 was acquired by UTC, the 50th-largest U.S. corporation and the 19th-largest public U.S. manufacturer. With a presence in the UK, China, France, India, Mexico and Singapore as well as the U.S., UTC has over 200,000 employees in all. It provides engines, ventilation systems, electrical systems, interiors and more to the world's major aircraft manufacturers. The plant in Peshtigo primarily produces aircraft seats.

AEROSPACE COMPANIES

FIVES, GIDDINGS & LEWIS

Fond du Lac

Established in 1895, Giddings & Lewis was acquired by the Fives Group in 2012. The company specializes in custom engineering solutions for high-quality, large part subtractive manufacturing equipment. It services a number of industries, with aerospace gaining prominence since the decline of the oil industry.



Photo courtesy of Fives, Giddings & Lewis

ORBITEC (SNC)

Madison

Sierra Nevada Corporation's (SNC's) Madison-based office, formerly known as ORBITEC, specializes in propulsion and environmental systems for a variety of space applications. SNC continues to provide non-toxic, high-performance propulsion systems at a low cost. Complete systems are available for environmental control, including air and water processing, thermal management, waste management, cabin instrumentation and science or payload systems. ORBITEC's unique capabilities stem from 29 years of research in environmental control and life-support systems for NASA. This includes continued work on next-generation plant growth systems for long-duration space habitats.

PLEXUS

Neenah

Established in 1979, Plexus is a leader in providing electronics design, manufacturing and aftermarket services to companies with mid-to-low-volume, higher-complexity products. Based in Neenah, the company provides a seamless value stream services model, or 'Product Realization Value Stream,' for customer products while meeting or exceeding all technological, quality and regulatory requirements demanded by the defense, security and aerospace industries.



Photo courtesy of Plexus

24,000 EMPLOYED
**BY COMPANIES THAT SUPPORT THE AEROSPACE
MANUFACTURING SECTOR**

Source: Infogroup, 2016

**TOP
10** **IN THE U.S. FOR
PRECISION MACHINING**

Source: U.S. Census Survey of Manufacturers, 2012; analysis by Miles Free, director of industry research and development, Precision Machined Products Association

The Wisconsin Economic Development Corporation (WEDC) leads economic development efforts for the state by advancing and maximizing opportunities in Wisconsin for businesses, communities and people to thrive in a globally competitive environment. WEDC provides resources, operational support and financial assistance to companies, partners and communities in Wisconsin. WEDC achieves its mission through initiatives driven by five strategic pillars: business development; community and economic opportunity; strategic economic competitiveness; state brand management and promotion; and operational and fiscal excellence. Working with more than 600 regional and local partners, WEDC develops and delivers solutions representative of a highly responsive and coordinated economic development network.

Visit **InWisconsin.com** to learn more.

