

AEROSPACE + AVIATION

OVERVIEW

Indiana has the right location and resources for aerospace companies to innovate and grow. As the home of top research universities and global giants in the aerospace industry, Indiana is leading the charge toward breakthroughs in advanced materials and components that are opening up new possibilities for what we can build and where we can go in the 21st century.

FACTS

Since 2013, leading aerospace businesses have announced plans to invest more than \$900 million in Indiana and create more than 1,200 new Hoosier jobs in the coming years.

- » Home to more than 34,000 engineers. (46% above US average)
- » Average Wage: \$89,000 Annually. (double the state's average wage)
- » Ranked #10 for aerospace manufacturing attractiveness. (by PwC)

ASSETS

Alcoa Aerospace Alloys

No stranger to the steel industry, LaPorte is home to Alcoa's new \$100 million nickel-based superalloy jet engine facility, which opened in 2015. A few months later, Alcoa opened the world's largest aluminum-lithium plant in Lafayette. The aerospace company took full advantage of the state's skilled workforce, employing approximately 3,200 Hoosiers across our state. In fact, Indiana claims more Alcoa aerospace employees than any other state in the country.

GE Aviation Leap Engine Assembly

Lafayette is home to the 225,000-square-foot GE Aviation plant that will assemble the LEAP engine from CFM International. Total orders and commitments for more than 6,000 LEAP engines have been received to date. The LEAP engine will power the Airbus A320neo, Boeing 737 MAX and COMAC (China) C919 for airlines worldwide. The \$100 million assembly facility demonstrates the state's ability to provide the resources that nurture both engineering excellence and a welcoming environment for the world's largest jet engine manufacturer.

The Institute for Advanced Composite Manufacturing (IACMI)

The IACMI is a multi-state, \$259 million public-private partnership that brings together industry, universities, national laboratories and government to advance commercial deployment of advanced composites. Purdue University Research Park in Lafayette is home to one of the five national IACMI composite research centers, utilizing the knowledge of the university's engineers and graduate students to develop new production processes and 3-D composite printing.

Notre Dame Turbomachinery Lab

In South Bend, the University of Notre Dame has taken part in a unique strategic collaboration with General Electric, resulting in an investment of \$36 million to establish the Notre Dame Turbomachinery Facility at Ignition Park. With 25,000 feet of the 43,000-square-foot facility occupied by Notre Dame, the Turbomachinery Facility houses five test facilities, a machine shop and a super computing center. This substantial investment allows for performance testing of gas turbine technology used by the aircraft and energy industries.

Purdue Research Park Aerospace District

Located in West Lafayette, the Purdue Research Park Aerospace District is a 980-acre flagship for public and private aerospace research and development to advance aviation and aeronautics innovations. Plans for the aerospace district, which encompasses the Purdue University Airport, Purdue Aviation (formerly called Lafayette Aviation) and the Maurice J. Zucrow Laboratories, include opportunities for aerospace companies that wish to collaborate with Purdue to build research and development facilities.

Rolls-Royce Aerospace

Rolls-Royce has had a presence in the US for over a century, and Indiana proudly claims the largest manufacturing site for Rolls-Royce civil aero engines outside of the company's UK headquarters. With a \$42 million advanced manufacturing facility producing the next generation of jet engine components, Rolls-Royce understands the tangible benefits of doing business in Indiana.

AEROSPACE + AVIATION

TALENT PIPELINE

Embry-Riddle Aeronautical University-Indianapolis offers bachelors and associates degrees in Aeronautics, Aviation Business Administration, Technical Management and Aviation Maintenance. Worldwide.
ERAU.edu/locations/Indianapolis

Indiana State University offers degrees in Aviation Management and Professional Aviation Flight Technology and minors in Aviation Technology and Unmanned Systems.
Technology.IndState.edu/AVT

Indiana University-Purdue University Indianapolis (IUPUI) offers degrees in biomedical, electrical, computer, motorsports and mechanical engineering and engineering technology. IUPUI researchers attracted just over \$336.3 million in grants and awards for research funding in 2012–2013. The campus includes about 100 research centers, including 27 Signature Centers.
Engr.iupui.edu

Ivy Tech Community College offers competitive programs that prepare students for careers in the aviation industry. The Aviation Manufacturing program offers degrees and industry-driven certifications including Assembly Mechanic, Electrical Assembly Technician, Certified Production Technician (MSSC) and National Institute of Metalworking Skills (NIMS).
Ivytech.edu/aviation-manufacturing

Notre Dame, Department of Aerospace and Mechanical Engineering
The Hessert Laboratory for Aerospace Research contains cutting edge facilities which provide research for a variety of private and public organizations.
AME.ND.edu

Purdue University's Aviation Operation Technology (AOT) degree trains engineers and technologists who design, test, and build new aircraft and components, an area that includes product support, modification, and accident investigation.
Tech.Purdue.edu/departments/aviation-technology

Rose-Hulman Institute of Technology was voted #1 for their School of Engineering in the United States by U.S. News World Report, 2013.
Rose-Hulman.edu

Trine University offers degrees in chemical, civil, electrical, computer, and mechanical engineering. Allen School of Engineering & Technology and the Ketner School of Business were moved under the College of Engineering and Business.
Trine.edu/schools/college-engineering-business

Vincennes University Aviation Technology Center at Indianapolis International Airport offers FAA Airframe and Power Plant certifications and Aviation Maintenance and Technology degree.
AviationTechCenter.com

INDUSTRIES

