



HLC Accreditation 2020-2021

Evidence Document

Industry and Defense Programs

NIAR

National Institute for Aviation Research About Us

Additional information: See more information on the National Institute for Aviation Research Website: <https://www.wichita.edu/research/NIAR/> (Accessed April 12, 2021).

National Institute for Aviation Research (NIAR)

Mission

To conduct research, transfer technology and enhance education for the purpose of advancing the nation's aviation industry, and to assist non-aviation industries that may benefit from aviation-related technologies.

The National Institute for Aviation Research (NIAR) at Wichita State University provides research, testing, certification and training for aviation and manufacturing technologies. Established in 1985, NIAR has a \$125 million annual budget; a staff of 650; and more than one million square feet of laboratory and office space in four locations across the city of Wichita, the Air Capital of the World.

Because of NIAR's research efforts, Wichita State University ranks fourth among all U.S. universities in aeronautical R&D expenditures according to the National Science Foundation. WSU ranks first in industry funding for aeronautical expenditures.

Accreditations

NIAR has earned the following accreditations.

- A2LA ISO/IEC 17025:2017 Mechanical Testing
- A2LA ISO/IEC 17025:2017 Electrical
- NADCAP AC7101 Materials Testing Laboratory
- NADCAP AC7122 Non Metallic Materials Testing
- Bombardier Aerospace Ultrasonic Inspection of Composite Components
- U.S. Department of State Forced Entry and Ballistic Resistance Test Facility (FE/BR)
- Honda Aircraft Company Approved Supplier

Capabilities

NIAR, an unincorporated division of Wichita State University, is the largest academic aviation R&D institution in the U.S. with global reach and expertise in research, development, testing, and certification in the following areas:

- Additive Manufacturing & Prototyping
- Advanced Coatings
- Ballistics & Impact Dynamics
- CAD/CAM
- Crash Dynamics
- Composites & Advanced Materials
- Digital Twin
- Engineering Design & Modification
- Environmental & Electromagnetic Test
- Extended Reality
- Flight Simulation
- Flight Test & Certification
- Full-Scale Structural Testing
- High Fidelity Inspection

- Mechanical Test
- Reverse Engineering
- Robotics & Automation
- Sustainment
- Virtual Engineering
- Wind Tunnel Testing

Centers/Initiatives

- ATLAS Advanced Technologies Lab for Aerospace Systems (ATLAS)
- 3DEXPERIENCE Center
- National Center for Advanced Materials Performance (NCAMP)
- Composite Materials Handbook-17 (CMH-17)
- FAA Center of Excellence for Composites and Advanced Materials (CECAM)
- FAA ASSURE Center of Excellence for UAS Research (ASSURE)
- Kansas Aviation Research & Technology Growth Initiative (KART)
- FirePoint Innovations Center