



HLC Accreditation 2016-2017

Evidence Document

Research and Technology Transfer

NIAR

NIAR: National Institute for Aviation Research Home Page

Additional information: See this page on the Web: <http://www.niar.wichita.edu/>
(Accessed March 8, 2016.)



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NIAR Labs

Your designs need validation. That's where we come in. Whether it's a material, component, system or full airframe; we'll push it, pull it, heat it, freeze it, zap it and take it to its limits. We work with certification agencies to prove compliance and help when design issues arise. Our experience with countless unique projects brings in a fresh perspective, and our capabilities, technology, and expertise are unlike that of any other test lab. Bring us your test plans – you'll get results.

- Additive Manufacturing
- Advanced Coatings
- Aging Aircraft
- Ballistic and Impact Dynamics Research Lab
- CAD/CAM Lab
- Center of Innovation for Biomaterials in Orthopaedic Research
- Composites & Advanced Materials
- Computational Mechanics
- Crash Dynamics
- Environmental Testing
- Full-Scale Structural Testing
- Human Factors
- Mechanical Test
- Nondestructive Testing
- Oil Analysis
- Research Machine Shop
- Reverse Engineering
- Robotics & Automation
- Walter H. Beech Wind Tunnel
- Wind Energy



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Contact Us:

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- 03.02.16 **NIAR to host four-day hands-on composite course April 5-8**
- 01.22.16 **Direct effects of lightning testing now available at NIAR**
- 10.29.15 **NCAMP releases material properties for Cytac Cycom prepreg**
- 05.14.15 **Kansas universities awarded new FAA Center of Excellence designation**
- 04.16.15 **Wichita State, Kansas State working together on unmanned aerial systems studies**
- 03.24.15 **Airbus will locate major engineering center on WSU's Innovation Campus**
- 03.13.15 **NIAR will move labs to former Boeing site**
- 03.02.15 **NIAR adds new lightning and HIRF testing capabilities**
- 02.10.15 **Wichita State ranks among top universities for aerospace R&D**
- 02.05.15 **JAMS Technical Review will be held in Baltimore March 31**
- 02.02.15 **NIAR will host thermoset/thermoplastic seminar Feb. 10**
- 01.29.15 **New training options in NDT predictive technologies offered through NIAR/WATC partnership**

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WICHITA STATE
UNIVERSITY

NATIONAL INSTITUTE
FOR AVIATION RESEARCH

ABOUT US : LABORATORIES : TRAINING : PARTNERSHIPS : RESEARCH : EVENTS : CONTACT



Training

Advanced Coatings

Customized client-focused training options or standard curriculum toward an Associate of Applied Science degree or Technical Certificate from Wichita Area Technical College.

CAD/CAM

Customized client-focused training and regular six-week courses in CATIA V6, ENOVIA and FiberSim with credit available through Wichita State University or Wichita Area Technical College.

Composites & Advanced Materials

Several course options are available including Composites Hands-On Training, FAA Composites Manufacturing (CMfg), Composite Repair Hands-On Workshop and FAA Composite Structural Engineering Technology (CSET).

High Intensity Radiated Fields (HIRF) & Lightning

This course is designed for engineers and technicians involved in aircraft HIRF certification, industry engineers and airframe manufacturers. It provides students with an awareness of all aspects of systems and aircraft HIRF testing. [Enroll here](#). To schedule a customized class, contact Billy Martin.

Metals Hands-On Training

A five-day course designed for technicians, designers, engineers, analysts, and inspectors to get a hands-on experience in assembly, NDT techniques, repair and testing. For more information, contact Waruna Seneviratne.

Nondestructive Testing

NDT and oil analysis courses are offered in the fall, spring and summer sessions. Each class meets daily for one week at the National Center for Aviation Training. Students can work toward a certificate of completion (15 credit hours), technical certificate (46 credit hours) or associate of applied science degree (64 credit hours) from Wichita Area Technical College. Courses cover eddy current, ultrasonic testing, radiographic testing, bond testing, penetrant inspection, magnetic particle testing, computed radiographic imaging, visual inspection, 45-hour radiation safety, phased array, vibration analysis, thermography, acoustic emission testing, machine lubrication and analysis and electric motor testing.

RTCA DO-160G



Upcoming Events

<u>Date</u>	<u>Event</u>	<u>Location</u>
January 11 - April 29	<u>NDT & Predictive Technologies Courses</u>	National Center for Aviation Training 4004 N. Webb Rd., Wichita, KS
March 15-18	<u>DO-160G, Environmental Conditions and Test Procedures for Airborne Equipment Training Course</u>	RTCA Headquarters 1150 18th Street, NW Washington, DC 20036
March 22-23	<u>FAA JAMS 2016 Technical Review Meeting</u>	Gaylord Texan Resort and Convention Center Grapevine, TX
April 5-8	<u>Hands-on Composite Training Course</u>	National Center for Aviation Training 4004 N. Webb Rd., Wichita, KS
June 7-10	<u>DO-160G, Environmental Conditions and Test Procedures for Airborne Equipment Training Course</u>	Wichita State University - National Institute for Aviation Research
August 22	<u>CMH-17 Certification and Statistics Tutorial</u>	3M Customer Innovation Center 2326 Minnehaha Ave E St. Paul, MN 55119
August 23	<u>CMH-17 Certification and Statistics Forum</u>	3M Customer Innovation Center 2326 Minnehaha Ave E St. Paul, MN 55119
August 24-25	<u>CMH-17 PMC Coordination Meeting</u>	3M Customer Innovation Center 2326 Minnehaha Ave E St. Paul, MN 55119
September 20-23	<u>DO-160G, Environmental Conditions and Test Procedures for Airborne Equipment Training Course</u>	RTCA Headquarters 1150 18th Street, NW