The Advanced Coatings Lab is located at the National Center for Aviation Training and specializes in research, development and testing of aerospace coatings.

**Capabilities:**
- New coatings technology research and development
- Customized formulation of interior and exterior high performance coatings
- Materials/process evaluation and optimization
- Coatings application process improvement
- Product testing to military, OEM, and industry specifications
- Workforce Development

**Equipment:**
- Test Chambers
- Salt Fog Cabinet
- Temperature/Humidity Chamber – Exposure Testing, Filiform Corrosion
- Accelerated Weathering Units – Xenon, QUV
- Low Temperature Freezer

**Physical Testing:**
- Impact testers – Standard and G.E.
- Abrasion tester
- Mandrels for flex testing – standard and conical
- Adhesion Test Kits
- Water Immersion Bath
- Dry Film Thickness – Magnetic Induction, Eddy Current, Ultrasonic
- Hardness - Pencil

**Surface Preparation:**
- Central Dust Collection System
- Sanders
- Buffers/Polishers
- Easily Manipulated Mechanical Arm Units – Temple Allen

**Application:**
- Automated Panel Sprayer
- Gravity Feed Spray Guns – HVLP, Compliant
- Pressure Feed Spray Guns – HVLP, Compliant
- Pressure Pots
- Electrostatic Spray Gun – Air Assisted Airless
- Fresh Air Breathing System
- Virtual Paint Training Unit
- UV Cure Lamp
- IR Cure Lamp

**Color and Appearance:**
- Spectrophotometer – Desktop, Handheld
- Multi-Angle Spectrophotometer: Effect Pigment Evaluation
- Gloss Meter
- Orange Peel/DOI Measurement Unit
- Light Booth
- Microscope
- Rheology
- Viscosity Cups
- Brookfield Viscometer
- Stormer Viscometer

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Located on the Wichita State University campus, in a city recognized as the Air Capital of the World, The National Institute for Aviation Research (NIAR) is a prestigious state-of-the-art aerospace research and development laboratory with global reach and expertise. NIAR integrates university, government and industry in cooperative efforts to advance technologies.

The Institute’s clientele include many of the world’s aerospace manufacturers, NASA and the FAA. It is the largest aviation R&D academic institution in the United States, with 320,000 square feet and more than a dozen laboratories. NIAR is recognized internationally as a high-tech research and development, design, testing, certification and learning center.