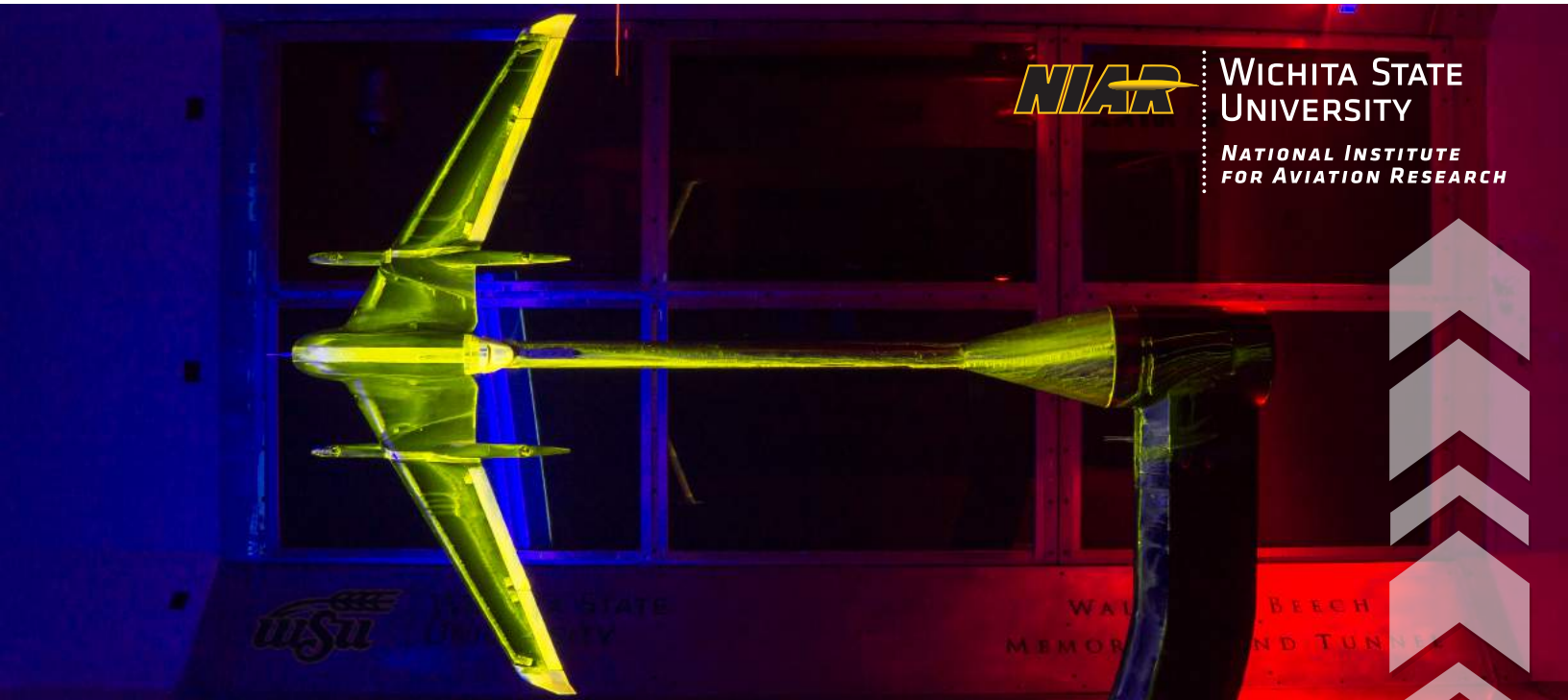


The National Institute for Aviation Research is equipped to handle a wide variety of aerodynamic testing needs, offering services of subsonic wind tunnel testing in the Walter H. Beech Wind Tunnel. High run rates and data repeatability create an ideal environment for both production and research wind tunnel testing.



WALTER H. BEECH WIND TUNNEL



NIAR

**WICHITA STATE
UNIVERSITY**

**NATIONAL INSTITUTE
FOR AVIATION RESEARCH**

→ CAPABILITIES & EQUIPMENT

- Test Section: 7'H x 10'W x 12'L
- Continuous speeds of more than 230 mph (Mach 0.3)
- 2,500 HP fan and active heat exchanger
- Aerotech ATE external balance with several mounting arrangements
- Full range sting system with robotic pitch, yaw, and roll
- Internal balances including Triumph FMS, Aerotech ATE, and Task
- Over 250 channels of precision pressure measurements using new Scanivalve MPS and DSA equipment
- Real time data reduction and display
- Flow visualization with multi-camera recording system including laser sheet, smoke, tufts, china clay, fluorescent oil flow, etc.
- Full design and fabrication support services for custom wind tunnel model mounting
- Support labs from NIAR and WSU Aerospace Engineering including Research Machine Shop, Additive Manufacturing, Reverse Engineering, Computational Fluid Dynamics, and Structural Analysis

→ RECENT PROJECTS

- Mooney M10J
- Boom Technology XB-1
- NAVAIR Diamond Wing Active Flow Control

→ CLIENTS

- Business Aircraft
- UAS
- Federal Research
- Defense

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