



**NIAR** WICHITA STATE UNIVERSITY  
NATIONAL INSTITUTE FOR AVIATION RESEARCH

# 3DEXPERIENCE Center



In partnership with:

**3S** DASSAULT SYSTEMES

The **3DEXPERIENCE® Center**, a partnership with Dassault Systemes, involves an interconnected community of top researchers, corporations and laboratories to accelerate innovation. The 22,000 sq. ft. facility at Wichita State University offers the expertise and technology for companies to accelerate their innovation. Aerospace and other industries can target improvements from concept to production and extend to operations - all while facilitating certification. The **3DEXPERIENCE Center** enables companies to engage in advanced product development and the manufacturing of next-generation materials and technologies.

▶ **ADDITIVE MANUFACTURING**

Additive manufacturing enables engineers to create custom parts and optimize standard parts for cost and weight, typically resulting in a 70 percent or more reduction in cost and weight.

▶ **CUSTOMER COLLABORATION ROOMS**

Customer Collaboration Rooms allow teams of up to 8 people across all functions to work together in one place on a single platform. These rooms include high-resolution screens, web conferencing and other collaboration tools, along with the full suite of solutions from Dassault Systèmes.

▶ **MULTI-ROBOTIC ADVANCED MANUFACTURING**

Multi-Robotic Advanced Manufacturing (MRAM) makes it possible to explore any shape without restriction, and reduce material waste up to 90 percent, optimizing manufacturing techniques. The MRAM can 3D-print chopped fiber composite, mill, scan and execute many other advanced manufacturing techniques to accelerate production, lower part count and eliminate manufacturing waste.

▶ **REVERSE ENGINEERING AND INSPECTION**

Reverse engineering and inspection technology offers engineers the ability to scan complex parts to create new virtual representations and inspect new parts for certification and quality control.

▶ **VIRTUAL REALITY & IMMERSIVE TECHNOLOGIES**

Virtual Reality technology delivers experiences as they are being designed. Explore new designs in fully immersive 3D and see the results of multiple simulations including bird strikes, multi-physics analysis and many others.

Using the **3DEXPERIENCE** platform, customers will also be able to work together simultaneously across multi disciplines to bring new innovations to life. Now program managers, engineers, manufacturers, testers and suppliers, together at every stage of the program, can understand design tradeoffs, manufacturing constraints and program impacts.

## **CONTACTS**

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