The NASA Dryden simulation capabilities support the most advanced aeronautical and space-based research now and in the future, through all phases of vehicle design, development, systems integration, verification, validation, and flight test.

We place the simulation capabilities in the hands of the customer

- The same software operates on a desktop as well as integrated laboratory environment
- All simulations are operable by one person
- Users have access to all the source code

Configurable Simulations

- Simulations are scalable to varying levels of complexity and stage of development
- Can support systems integration and evaluations of multiple design concepts
- Quick study of mission trajectories, flight management, and performance characteristics
- Mission planning and training to reduce or mitigate risks

Integrated Vehicle Testing

- Enables systems integration, verification, and validation testing of vehicle hardware and software
- Facilitates Failure Modes and Effects Testing (FMET)
- Test flight hardware and software as subsystems and components become available

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The NASA Dryden Research Aircraft Integration Facility (RAIF) and its simulation capabilities support the most advanced aeronautical and space-based research now and in the future, through all phases of vehicle design, development, systems integration, verification, validation, and flight test.

**RAIF Fact Sheet**

**Dryden Flight Research Center**

**TEST BAYS:**
- Six vehicle test bays in three physical areas
- Support both classified and proprietary projects simultaneously
- Interface to simulation laboratories and Mission Control Rooms
- Provide full vehicle system support infrastructure

**SIMULATION LABS:**
- Up to 11 simulation laboratories, each configurable to various security levels
- Labs overlook the test bays with data, video and audio connectivity

**ACCOMMODATIONS:**
- Co-location of project and facility management, vehicle maintenance, and engineering personnel
- Conference rooms
- 30,000 ft² office space

**PAST PROJECTS:**
- X-31, X-33, X-37, X-38, X-40, X-43A, F-18, F-15, F-16XL, C-17, UCAV, Pathfinder

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**Test Bay Vehicle Support Infrastructure**

- Vehicle avionics cooling supply
- Independent hydraulic supply systems
- 120/208 three-phase 400 Hz power
- 28Vdc 400 Hz power
- 277/480V three-phase 60 Hz power
- Uninterruptible 277/480 60Hz power

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**www.nasa.gov/centers/dryden**