

The National AeroSpace Training And Research Center



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# COCKPIT/CABIN MODULES

Interchangeable, “plug-and-play” cockpit and cabin modules provide a safe, cost-effective, and authentic aircraft/spacecraft training environments for pilots and passengers. Modules can be both stand-alone simulators (non-motion) and dynamic high-fidelity (full-motion) simulators when inserted into the high-performance PHOENIX Centrifuge.

Together with the centrifuge, the interchangeable modules enable authentic replication of the cockpit/cabin environment, vehicle performance, and mission systems as well as provide the same physiological stresses encountered during actual flight. Standard and custom-built modules are available. Multiple modules can be data-linked to support multi-mission rehearsals, operations, and training exercises.



# COCKPIT/CABIN MODULES

## APPLICATIONS

- Space Training
- Civilian Pilot Training
- Air Combat Training & G Training
- Human Performance & feedback
- Seat Design & Configuration Testing
- Life Support Systems Testing
- Tactical maneuvering in a hostile environment
- Human system interface
- Cockpit cabin ergonomics

## SPECIFICATIONS

- High-fidelity flight controls and instrumentation
- 120° x 70° Field of View & real-world visual display
- Customizable flight instrument display panel
- Single-seat cockpit or cabin modules
- Pressurized oxygen and breathing air
- BIOPAK medical monitoring equipment
- Closed Circuit Television (CCTV) video capture & recording
- Multi-channel voice communication system
- Seat shaker

## VALUES

- Enhanced operational preparedness
- Reduced airframe and engine fatigue
- Reduced dependency on training ranges
- Significant cost reduction
- Greater confidence and experience in a high “G” environment
- Data link options to other cockpit modules, HLA compatible simulators, actual aircraft
- Standalone or integrated
- Authentic simulator emphasizes training effectiveness

