



ABOUT NASTAR CENTER

The National AeroSpace Training And Research (NASTAR®) Center (est. 2007) is a world-class commercial air and space training, research, and educational facility. It combines **state-of-the-art flight simulation** with **physiology-based courseware** to optimize human performance in extreme environments.

The NASTAR Center is unique in that it serves as the only non-government (commercial use) facility for the application of acceleration and G force exposure in the world. The center specializes in **replicating high-performance flight environments** and characteristics of aerial vehicles. This exclusive capability is ideal for safely **modeling nominal and off-nominal (emergency) trajectories** and evaluating human performance for military, commercial aviation, and spaceflight clients. The NASTAR Center actively collaborates with numerous agencies including NASA, FAA, JAA, etc. to promote safety in flight.

Located in Philadelphia, PA, the NASTAR Center is a wholly owned subsidiary of Environmental Tectonics Corporation (ETC). ETC has over **43 years** of defense and commercial aerospace manufacturing technology and aeromedical expertise in **87 countries** around the globe. The NASTAR Center uses this rich network of experts and technology to provide rich, rewarding, and authentic aerospace training, research and educational experiences for people everywhere.

TRAINING.

The NASTAR Center is the **first Federal Aviation Administration (FAA) approved center** able to meet the training requirements for commercial human spaceflight. It is recognized as the **leader in the development and delivery training for commercial spaceflight** and known for its Upset Prevention and Recovery Training (UPRT) program for commercial aviators.

- Suborbital/Orbital Training for Space Operators, Pilots, Crew, Passengers & Researchers
- Tactical and Aeromedical Training for Military Pilots, Physiologists and Flight Physicians
- Advanced Pilot Training for Commercial, Corporate, and General Aviation Pilots

RESEARCH.

The NASTAR Center's research-oriented atmosphere offers easy, cost-effective, and flexible access to its **unique motion platforms** and **test environments** including temperature, pressure, vibration, acceleration, and multi-axes orientation. Research services include available subjects, operations and medical staff, engineering services, and full service rapid internal Institutional Review Board (IRB).

- Human Factors and Man-Machine Interaction
- Learning and Training Methodologies
- Stress, Cognition and Human Performance
- Sensory Physiology and Motion Perception

EDUCATION.

The NASTAR Center education programs feature **interactive, hands-on, edu-tainment content** for all ages. Lessons incorporate Science, Technology, Engineering, and Mathematics (STEM) objectives and educators are able to earn continuing education credits. The NASTAR Center works to further expand educational opportunities with its **non-profit NASTAR Foundation** (www.nastarfoundation.org).

- NASTAR Camp Programs
- Boy/Girl Scout Programs, Internships, and Student Design Competitions
- Professional Teacher Workshops (with continuing education hours)