FLIGHT SAFETY
THROUGH TECHNOLOGY & TRAINING

HIGH-G  FLIGHT SIMULATION  PILOT SELECTION  NIGHT VISION  ALTITUDE PHYSIOLOGY TRAINING
EMERGENCY EGRESS  SPATIAL DISORIENTATION  SITUATIONAL AWARENESS
FLIGHT SAFETY
THROUGH TECHNOLOGY & TRAINING

Since 1969, Environmental Tectonics Corporation (ETC) has designed, manufactured, installed, commissioned and supported aeromedical training and research simulation systems. From G-tolerance to night vision systems, our equipment can be procured individually to complement an existing training program or as part of a complete aeromedical training center.

ETC anticipates aircrew needs and offers simulators that address training and research requirements. Producing the most cutting edge simulators and focusing on the latest aviation concerns make ETC the only choice for research and training.

ETC CLIENTS
With equipment in over 85 countries, ETC is a true leader in flight training and simulation. For a complete list of countries and equipment, visit our client list on the Web at www.etcAircrewTraining.com/Clients.
Spatial disorientation and loss of situational awareness are the top challenges in manned flight today. ETC offers a full line of simulators that realistically replicate these phenomena, training pilots to identify and respond to threats.

**GYROLAB GL-1500**

The most cost-effective flight physiology training and research device available. GYROLAB GL-1500 provides continuous and simultaneous motion in four axes of rotation with up to 6 Gs of sustained acceleration stimuli in any direction. The cockpit is interchangeable and fidelity is configured to each client’s individual training needs. (www.etcAircrewTraining.com/GL1500)

**GYROLAB GL-4000**

The ideal training device for unusual attitude recovery, spatial disorientation, motion desensitization and flight training. Available in a fixed or rotary wing configuration with a single or dual seat cockpit, the GL-4000 simulator has continuous and simultaneous motion in four axes of rotation with up to 6 Gs of sustained acceleration stimuli in any direction. The cockpit is interchangeable and fidelity is configured to each client’s individual training needs. (www.etcAircrewTraining.com/GL4000)

To learn about the specific tactical application of the GL-4000 called ATFS-300 PEREGRINE, visit us on the Web. (www.etcTacticalFlight.com/PEREGRINE)

**GYRO IPT III**

Integrated Physiological Trainer
This third generation simulator comes with increased payload capacity and proven subthreshold motion capability. Multiple custom cockpit configurations are available, and automated motion profiles provide a flexible training and research environment with repeatable scenarios. (www.etcAircrewTraining.com/IPT3)

**GL-6000 GRYPHON**

Disorientation Research Device
The GRYPHON’S unique motion capabilities—including simultaneous motion cueing—make it an ideal platform for STOL, STOVL, and VTOL aircraft pilot training. The simultaneous rotational and linear acceleration capabilities provide the ideal research environment to explore more advanced flight scenarios in the safety of a ground based unit. (www.etcAircrewTraining.com/GRYPHON)

**THE ORIGIN:** The GL-6000 GRYPHON Disorientation Research Device was specifically developed for the Naval Medical Research Unit Dayton, Naval Aerospace Medical Research Laboratory, located at Wright-Patterson Air Force Base, Ohio.

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G-induced Loss of Consciousness (G-LOC) is a persistent threat that each pilot must manage during flight in a high-performance aircraft, particularly when engaged in a combat mission. To eliminate G-LOC, an aggressive G-training program is essential. With the ATFS-400, pilots can practice anti-G straining maneuvers in a task-saturated environment while simultaneously experiencing the real physiological effects of flight—just like a live, in-air mission.

**HIGH-G TRAINING**

**AUTHENTIC TACTICAL FIGHTING SYSTEM (ATFS)-400**

The ATFS-400 is a system with active pitch and roll capable of generating up to 20Gs with an onset of up to 15G/s. For maximum versatility, the ATFS-400’s interchangeable cockpits can simulate any aircraft of the customer’s choosing and can function as a standalone simulator when not installed in the flyable motion base. Optional synthetic environments and avionics elements can be included to support tactical flight training. (www.etcAircrewTraining.com/ATFS400)

**G-LAB**

ETC’s G-LAB offers an array of optional features. The G-LAB is an acceleration physiology trainer with a passive roll system and ability to generate up to 15Gs at 8G/s, replicating the performance of today’s tactical aircraft. (www.etcAircrewTraining.com/GLAB)

For specific tactical applications, ETC offers the ATFS-400 PHOENIX Authentic Tactical Fighting System, which addresses the unique training concerns of tactical flight. (www.etcTacticalFlight.com/PHOENIX)
ALTITUDE PHYSIOLOGY TRAINING

OPTIONS

AUTOMATED PSYCHOMOTOR ASSESSMENT SYSTEM (APAS)
An automated handheld device for simulating hypoxic environments with embedded Psychomotor tasks.

CANOPY HOOD
Provides the trainee flight simulation and imagery to create a more realistic, task-oriented training experience.

REMOVABLE SKINS
Cover mechanical systems and structural areas for a more orderly and visually appealing chamber.

OXYGEN DELIVERY SYSTEMS
ETC uses proprietary components in conjunction with actual components to simulate oxygen regulators for various aircraft models for training.

Gyroflight
A high-fidelity military flight simulator with a reconfigurable cockpit that simulates multiple customer-designated aircraft. Real-world visuals and realistic flight models provide a quality training experience.

GAT II Fixed-Wing
Ideal for flight training schools, academies, and airports. Combines basic flight, instrument, and spatial disorientation training into one cost-effective motion platform.

GYROFLIGHT
A high-fidelity military flight simulator. The reconfigurable cockpit can simulate multiple customer-designated aircraft. Real-world visuals and realistic flight models provide a quality training experience.

GAT II Helo
Provides a realistic helicopter training environment for a generic or customer-designated rotary-vehicle. The three-axis motion system provides pitch, roll, and continuous yaw motion.

FLIGHT TRAINING
ETC's motion-based flight simulators support a variety of research and training applications. Each simulator has automated spatial disorientation and situational awareness profiles and can support basic flight training, navigation, general procedures, and various other training and research activities. (www.etcAircrewTraining.com/FlightTrainers)

Zero/Zero Ejection Seat Simulator
ETC's Zero/Zero Ejection Seat Simulator (ESS) is a major breakthrough in ejection trainers. The ESS provides up to 10G of acceleration and supports enhanced interactive, pre-ejection, and ejection procedures training. The ESS also supports "decision to eject" training with flight simulation ejection profiles. (www.etcAircrewTraining.com/EjectionSeat)

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EMERGENCY PROCEDURE AND EJECTION TRAINING

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ADDITIONAL SYSTEMS

PILOT SELECTION SYSTEM
Coupled with the General Aviation Trainer - Pilot Aptitude Testing System (GAT PATS) for practical skill assessment, this system identifies unsuitable pilot candidates early in the process, saving time and cost. (www.etcAircrewTraining.com/PilotSelection)

NIGHT VISION AND NIGHT VISION GOGGLE TRAINING
This training utilizes custom Terrain Model Boards (TMB), IR projection technology and classroom curriculum to teach techniques for vision in low or no-light scenarios—with or without goggles. Alternately, a Virtual Terrain Model Board (VTMB) can be provided for enhanced flexibility and expandability. (www.etcAircrewTraining.com/NightVision)

WATER SURVIVAL TRAINING
Includes: helicopter egress, parachute drop and disentanglement, drag, and helicopter rescue hoist training equipment for use together or individually. These systems provide training in critical skills that aircrew will need in the event of an over-water egress. (www.etcAircrewTraining.com/WaterSurvival)

INTEGRATED LOGISTICS SUPPORT (ILS)
This group provides onsite operation, maintenance and service of flight simulators and training systems made by ETC or other manufacturers. The ILS group can also provide system upgrades for a range of equipment. (www.SimulatorSupport.com)

AERomedical TRAINING
The Aeromedical Training Institute (AMTI) provides training for pilots and aeromedical instructors at the customer’s site or at ETC’s comprehensive aeromedical training facility, the National AeroSpace Training And Research Center (NASTAR Center) in Southampton, Pa., USA. (www.AeroMedicalTraining.com)

TURN-KEY AEROMEDICAL CENTERS
ETC offers comprehensive, turn-key solutions for the aeromedical community and has provided facilities in the following countries: Malaysia, Korea, Turkey, Singapore, United Arab Emirates and two locations in the United States—NAS Lemoore and the NASTAR Center.

(Pictured below: the Korean Aeromedical Training Center in Cheongju, South Korea. This state of the art facility includes ETC’s ATFS-400, hypobaric and hyperbaric chambers, GYROLAB GL-4000, GYRO IPT II, night vision / night vision goggle training system, and an ejection seat simulator.)
REGIONAL SALES CONTACTS

Contact a regional director today for a one-on-one consultation.

EUROPE
Allan Firth
afirth@etcusa.com
Keith George
kgeorge@etcusa.com
Bob Young
byoung@etcusa.com

TURKEY
Sacit Kilincer
SacitK@etcTurkey.com.tr

MIDDLE EAST/NORTH AFRICA
Husnu Onus
honus@etcusa.com

ASIA PACIFIC
Eric Sprague
esprague@etcusa.com
David Kong
dkong@etcusa.com

SOUTH KOREA
Dr. Moon Park
mpark@etcusa.com

INDIA
Air Marshal (Ret.) GS Chaudhry
gchaudhry@etcusa.com

SOUTH/CENTRAL AMERICA
Glenn King
gking@etcusa.com

CANADA
Kester Hamilton
khamilton@etcusa.com

MEXICO/ CARIBBEAN
Pete Amalbert
pamalbert@etcusa.com

US MILITARY/ATFS SPECIFIC PRODUCTS
Ken Ginader CAPT, USN (Ret.)
kginader@etcusa.com