

The NASTARSM Center serves five primary markets:

Tactical Aviation

Tactical pilots can fly the ATFS-400, or Authentic Tactical Fighting System, a centrifuge-based flight simulator, to practice flying skills, hone their combat edge, and take themselves and their aircraft to the edge of the flight envelope and beyond, discovering the boundaries of the aircraft's performance limits, and their own. There is no more authentic piloting experience, short of flying the actual craft.

Space Launch

The era of private human space launches has arrived. However, launching into space is not the same as riding on a commercial jet. Private space travelers will experience the same physiological effects as professional astronauts. The NASTARSM Center readies private space travelers for their flights into space by conditioning them to the rigors of space flight, which gives them the confidence that they can handle the stresses of space launch, so they are prepared, and can enjoy their unique space experience. The NASTARSM Center also stands ready to work with Launch Providers in developing their human space launch capabilities.

Research Support

The NASTARSM Center is a comprehensive facility, ready to support a wide array of research into Aeromedical, Human Factors, and Ergonomic issues. Capabilities include high sustained Gs on our high-performance centrifuge, high altitude exposure in our hypobaric chamber, and spatial disorientation, situational awareness, and upset recovery research in our short-arm centrifuge. The NASTARSM Center has many other capabilities including an established IRB, and human test subjects, to meet a wide variety of research needs.

Civil Aviation

The NASTARSM Center has many programs to improve your piloting ability. If you're a VFR pilot with only a few hours, or a seasoned IFR Pilot, our programs will teach you to recognize the symptoms of impending problems and give you the skills to always maintain control of your aircraft. Training programs in spatial disorientation, situational awareness, and upset recovery programs will provide the skill sets you'll need to survive beyond your check ride.

Serious Entertainment

Whether you want to find out what launching into space is like, or you want to go up against a MiG 29 in an F-15, the NASTARSM Center has a wide variety of "serious entertainment" experiences to challenge your air combat skills. The NASTARSM Center puts you in a high-fidelity cockpit, and sends you skyward into engagements against skilled pilots. Your co-pilot is there to assist you during your engagement, and coach you through the high G turns and maneuvers. If you want to fly higher and faster than a jet pilot, our Space Launch experience will launch you into a suborbital flight, with all the G forces of an actual launch.



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