

SANTOS – Virtual Soldier Research



The **Iowa Technology Institute**, formerly the Center for Computer-Aided Design, is a world-class research hub founded in 1981 at the University of Iowa. Grounded in engineering and science, ITI cultivates collaboration across disciplines, invents advanced technologies, and conducts trailblazing basic and applied research in design, simulation, and experimentation that enables a safer and more productive future.

6 MISSION AREAS

- Advanced Manufacturing and Materials
- Aerospace Technology
- Biotechnology
- Environment and Energy
- Human Modeling and Simulation
- Systems and Sensors

→ 200+ faculty, research scientists, administrative staff, and students.
→ 30+ research labs and centers.
→ 42 active agency and commercial partners.
→ \$19 million in external research funding. (2020)

→ 81 grants and contracts awarded. (2020)
→ 50 external sponsors. (2020)
→ Locations on University of Iowa campus and in Orlando, Fla.
→ 40 years of innovation.

RESEARCH LEADERSHIP

Owner of six aircraft including two L-29 jets and two Mi-2 helicopters, plus unmanned aerial vehicles for the purpose of conducting live flight research

Creator of Santos and Sophia, the first-of-their-kind virtual humans. The physics-based and predictive human simulation ecosystems are used by military, NASA, and auto manufacturers to test product designs and processes.

Leader in atmospheric and environmental research with expertise in satellite remote sensing, fire detection, and aerosols.

A technology transfer engine that has brought research to market and recorded numerous inventions.

A record of research accomplishments with economic impact.



SMART AND CONNECTED WEATHER SENSORS
– Atmospheric and Environmental Research Lab



AV L-29 DELFIN JETS
– Operator Performance Lab