

SOLUS

Solutions and Technologies

SOLUS was founded in 1997 to provide innovative aerodynamic, hydrodynamic, and flow control technologies and solutions. Drawing upon more than 70 years of research and development experience the SOLUS team is uniquely qualified to support your technology needs through a variety of working relationships that vary from consultation to independent research and product development.

Team members are nationally and internationally recognized experts and have a proven record of accomplishments developing innovative technologies. The team holds patents in the fields of aircraft design, ground vehicles, sporting equipment, watercraft design, and fluid flow control.

We have the unique ability to supplement our intellectual capital through a national network of like-minded scientists and engineers.

Solutions and Technologies:

Aerodynamics:

The SOLUS team has authored over 200 publications covering all aspects of aerodynamics and fluid dynamics. SOLUS is presently focused on Personal Air Vehicles, Micro and Macro UAVs, and Supersonic Aircraft design.

Transportation:

SOLUS has a number of advanced flow-control technologies that improve the fuel economy for a wide variety of truck systems. Operational data, representing one year of use, show fuel savings of 15% with SOLUS technologies.

Sports:

SOLUS has patented a unique drag amplification technology that can revolutionize resistance training in a wide variety of sports. The SOLUS drag amplification technology can be modulated in real time and has the ability to increase resistance by a factor of ten.

SOLUS - Solutions and Technologies

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How we work:

SOLUS – Solutions and Technologies can support your needs through three working relationships; consulting, technology development, and research and innovation.

Consulting services cover a broad range of technical skills such as; experimental testing and analysis, computational solutions and analysis, data analysis, report writing, and engineering analysis.

Technology development services vary from fundamental concepts to product fabrication and field test. To support the specific needs of clients the SOLUS team will take advantage of a wide variety of government, University, and corporate experimental and computational facilities in the mid-Atlantic region.

Research and innovation services are a unique specialty of the company and are available to clients that have sufficient capital and marketing resources to launch a new product. SOLUS will utilize its internal technology innovation development strategy to derive new solutions, technologies and products that satisfy the customer needs. SOLUS will guarantee the patentability of the solutions.

Relationships:

The SOLUS team will bring to bear the experiences and knowledge gained by working with a broad spectrum of companies, government agencies, and academia. A partial list of the companies and organizations is provided below.

- American Trucking Association
- Bell Helicopter
- Boeing
- Department of Defense
- Department of Energy
- Department of Transportation
- General Electric
- Georgia Institute of Technology
- Lockheed-Martin
- Iowa State University
- U.S. Navy
- U.S. Army
- U.S. Air Force
- NASA
- Northrop-Grumman
- Old Dominion University
- Ohio State University
- Schwebel Bakery
- SouthEastern Trucking
- University of Maryland
- University of Missouri-Rolla
- United Technologies
- Virginia Polytechnic University