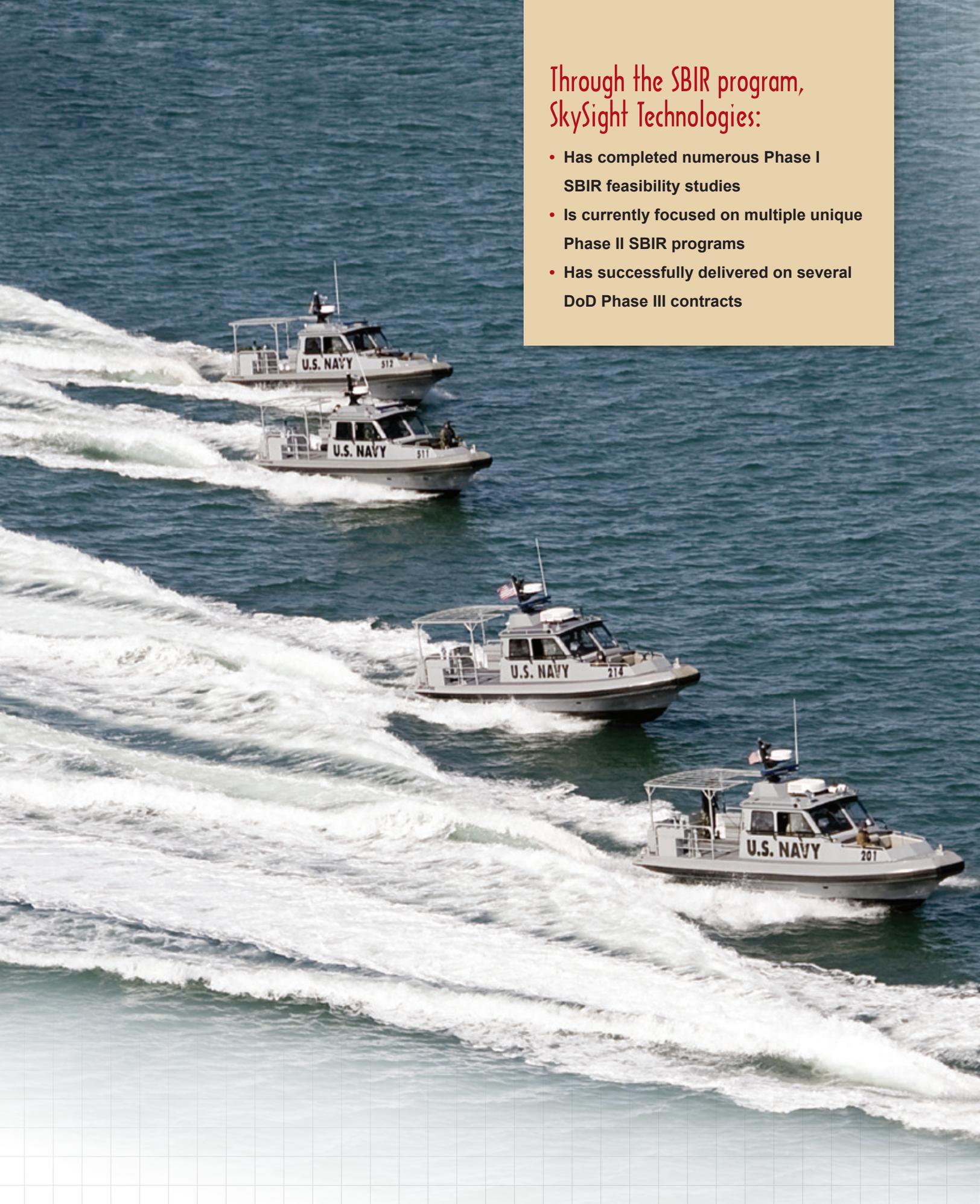


# SkySightTechnologies<sup>LLC</sup>

Engineering Solutions



[www.SkySightTech.com](http://www.SkySightTech.com)



## Through the SBIR program, SkySight Technologies:

- Has completed numerous Phase I SBIR feasibility studies
- Is currently focused on multiple unique Phase II SBIR programs
- Has successfully delivered on several DoD Phase III contracts

## Engineering Solutions

With a reputation for innovation and the ability to react quickly to emerging needs, SkySight Technologies, LLC provides engineering design and development for Department of Defense (DoD), government, and commercial applications.

The scope of service encompasses product and system design from initial concept through production, as well as technical consulting and systems engineering expertise.

SkySight Technologies also participates in the Small Business Innovative Research (SBIR) program.

## Core Competencies

Experienced engineers and skilled technical experts at SkySight Technologies have the vision and theoretical knowledge necessary to develop innovative solutions to the most challenging needs. In their work with government and private customers, the team has been especially recognized for their ability to meet challenging needs, specifications, and physical constraints, and to integrate governmental technological research into marketable products.

This expertise includes ocean-based and underwater development projects and applications. Developments have resulted in engineering solutions for sonobuoys and related undersea sensor programs. Other efforts include homeland security, counterdrug enforcement, and non-lethal weapons needs.

At all stages of a project, design efforts respond to customer expectations. Every development is also executed with the end-user in mind, ensuring ease of operator interface in the field. Experience in Design for Manufacturing Assembly (DFMA) techniques further expands the company's capabilities.





## Technology

- Design of electromechanical components, assemblies, and systems
- Extensive undersea sensor development capabilities
- Littoral environment moored sensor technology
- Patented ocean bottom trawl survivability system
- Airflow measurement technology
- Systems engineering

## Research & Development

- Ocean bottom energy harvesting technology
- Cost reduction and commercialization of undersea sensors

## Production

- Low rate initial production (LRIP) capabilities
- Prototypes and engineering development models
- Production partnerships for higher volume requirements

## Consultation Service

- Technical consulting
- Systems engineering by Certified Systems Engineering Professional
- Custom mechanical design for low or high volume components and systems



## Technology Applications

Working with government and private sector customers, SkySight Technologies has actively participated in a wide range of specialized projects.

For private customers and prime contractors, programs range from sensor development for United States Special Operations Command (USSOCOM) to ocean energy harvesting solutions and marine mammal detection systems.

For government customers, through direct contracts and the SBIR program, activities and Phase I and Phase II efforts have included original battery pack designs for specialized Navy applications, a passive acoustic sensing system for littoral waters, a trawl survivability solution for undersea sensors, and a turbulent air flow anemometer for air quality monitoring.

Several Navy Phase III contracts have been fully delivered.



## SafeSensor™ System for Trawl Survivability

Worldwide threats have driven probable conflicts from deep waters to more shallow environments, thus necessitating undersea training ranges in these areas. SkySight Technologies has become the recognized subject matter expert in trawl survivability solutions.

Based on extensive underwater experience, the SkySight Technologies' SafeSensor™ reduces the risk of damage wherever trawl and commercial fishing may pose risk of damage to ocean bottom sensors.

The SafeSensor™ patented solution uses an innovative float design that stands sentry, protecting sensors without additional parts or system complication. The tethered sensor float is shaped so that it orients itself and glides under the trawl rigging safely without snagging and then resumes its original position after the nets pass over it.

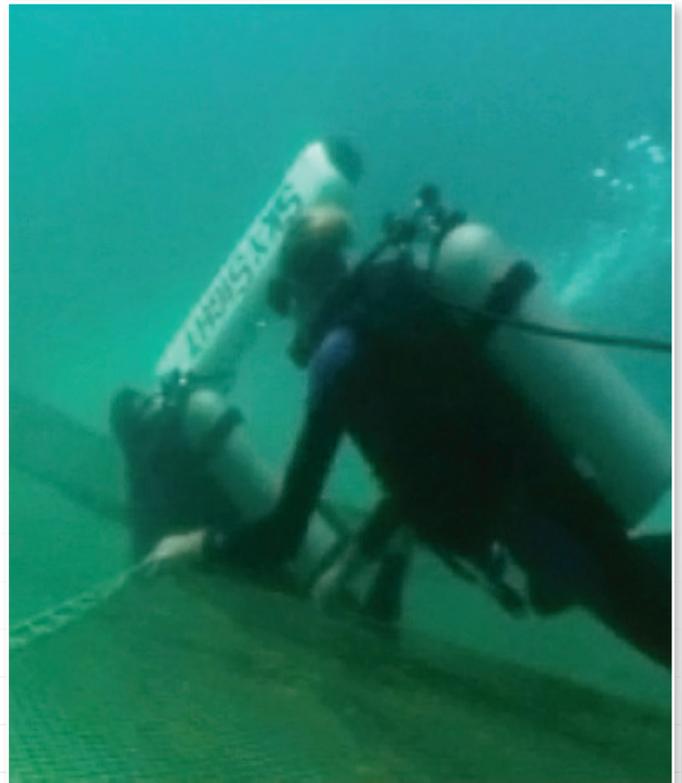
Full-scale, in-ocean testing has demonstrated the effectiveness of the SafeSensor™.

# SafeSensor™



The SafeSensor™ float can be scaled to accommodate nearly any size or weight sensor package while still retaining a compact form factor for easy packaging and deployment. Acoustic, environmental, and other scientific sensors and hardware can all benefit from SafeSensor™ protection.

Other potential applications include surface markers, towed sensors and towed arrays, and objects suspended in air on the end of a line to be pulled over the edge of a deck, platform, railing, or bench without snagging.



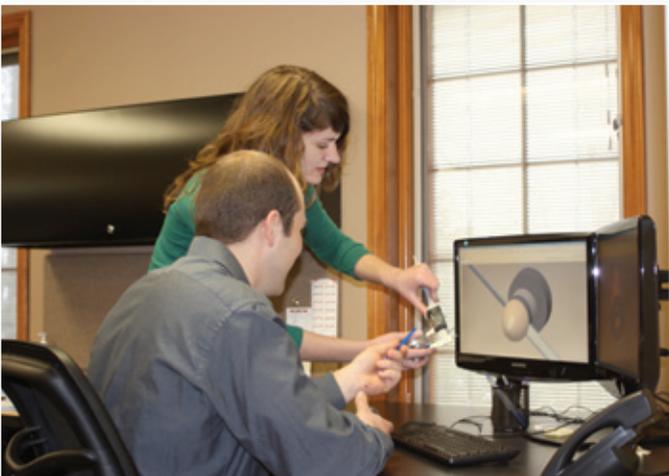


## Turbulent Air Flow Anemometer

Air pollutant emission quantity and emission rate are a primary interest for environmental protection, policy making, and law enforcement. The SkySight Technologies Full Scale Anemometer (FSA) has strongly demonstrated its feasibility as an economical device for measurement of real time airflow rate at the exhaust of large ventilation fans.

Testing has consistently documented the FSA's high level of precision. Further, the research has demonstrated that it could be installed on ventilation fans regardless of which direction the host ventilation fan rotates.

The FSA responds to the need for an anemometer that provides instant and continuous air flow volume measurement for large diameter agricultural and industry fans. Because these are often harsh environments, the FSA's electronics are enclosed for protection, furthering its significant competitive advantages of continuous air flow measurement at a low cost and in a small, compact format.



## Insect Collecting Tent Trap

In collaboration with Walter Reed Army Institute of Research (WRAIR), SkySight Technologies has developed and demonstrated the feasibility of a tent trap that uses a soldier's human odor and an airflow system to attract biting flies, mosquitoes, and other insect specimens. Without risk of disease transmission to the human bait, the system safely traps the specimens.

The tent trap is an integrated component system that is easy to erect in the field and uses the human scent to attract the specimens. Harvesting and storing energy from the environment to provide power to the pull airflow system and light system has also been integrated into the design.

The airflow system captures the specimens in an innovative collection container which preserves them for appropriate entomological study and analysis. Initial testing conducted by Purdue University entomology specialists documented successful capture and preservation of the specimens.





## Established Relationships

### DoD Government Customers

- NAVAIR
- NAVSEA Keyport
- NAVSEA Newport
- Office of the Secretary of Defense
- U.S. Special Operations Command (USSOCOM)
- Walter Reed Army Institute of Research (WRAIR)

### Government Customers

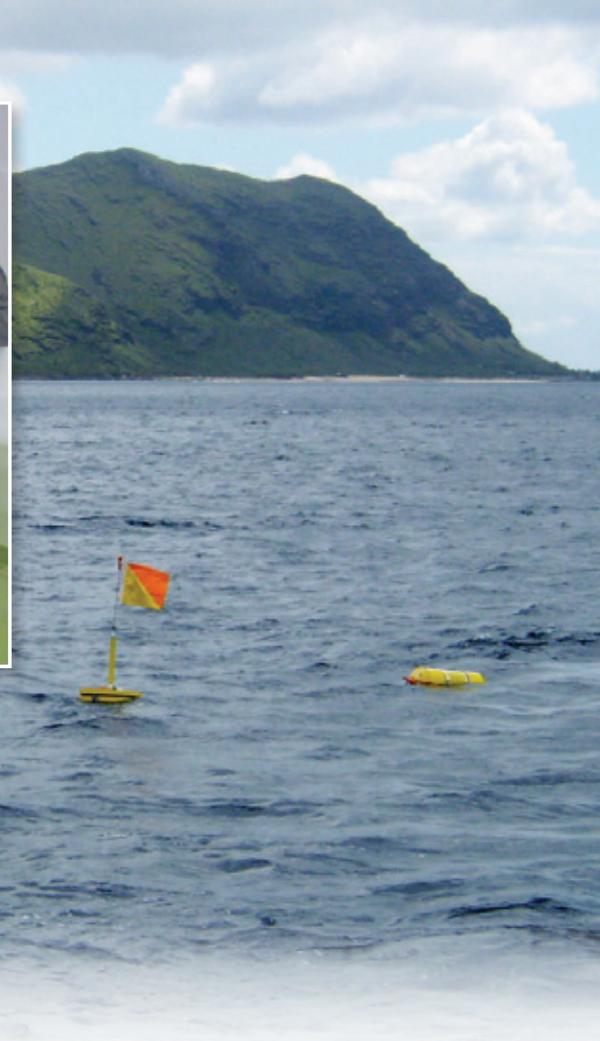
- Environmental Protection Agency (EPA)

### Private Sector Customers

- BAE Systems
- L-3 Communications
- Lockheed Martin
- Raytheon Company
- RDA, Inc.
- Guide Star Engineering
- Physical Optics Corporation
- Signal Systems Corporation
- Ultra Electronics

### Technology Partners

- National Marine Fisheries Service
- Purdue University
  - Department of Agricultural and Biological Engineering
  - Department of Electrical Engineering
  - Department of Entomology
- UnderSea Sensor Systems Incorporated (USSI)



## Company Profile

SkySight Technologies, LLC was founded in 2006 to respond quickly to developing Department of Defense (DoD) needs, which often start out as small programs. While larger defense companies may not be positioned to react, SkySight Technologies' smaller size enables it to rapidly respond with technical expertise and sophisticated, low-cost design solutions.

The SkySight Technologies diverse team of engineers and subject matter experts is extremely experienced in electromechanical systems development and applications. Each brings a unique perspective and depth of experience to the projects they collaborate on.

SkySight Technologies has laboratory/production areas and office space in a dedicated freestanding building.

An off-site laboratory includes a 1,900-gallon test tank for in-water development, deployment, and testing, with additional workspace for mechanical assembly and production.





# SkySight Technologies LLC

Engineering Solutions

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