

## Exploring Oceans, Waterways, Pipelines and Structures with Energy Efficient Robots

***GO Science has secured a grant for R&D from the South West Regional Development Agency (SWRDA)*** to investigate novel scientific and engineering aspects of a particular class of low energy unmanned under liquid robot, where the company has established a submersible vehicle solution (*RHyVAU*) that offers low cost automation across a broad spectrum of maritime, industrial and utility applications.

***The programme*** will characterise and demonstrate the critical performance aspects of *RHyVAU* during 2006, including novel propulsion, attitude control, imaging and audio-sensory processing using low energy methodologies covered by a patent that was filed by GO Science in 2005. This new technology addresses emerging markets in offshore oil & gas, renewable energy, climate change science and homeland security sectors where customers demand low cost, low energy automation of under liquid operations in tough environments.

***RHyVAU is designed*** to operate remotely, in many roles where divers or alternative vehicles may fail to meet goals through some combination of cost, safety, risk, schedule or performance parameters. ***RHyVAU Indago*** glides through deep oceans using low energy technologies to capture large volumes of critical scientific data that will help us to better understand the subtle yet dramatic changes in our global climate.

***RHyVAU Contueor*** surveys our coastlines, estuaries, ports and waterways, and includes novel sensors to view, map and classify underwater pipelines, sea bed strata or topographic detail. Our innovative technology also serves the utility, offshore oil, gas and renewable energy sectors via ***RHyVAU Aspicere***, which includes real time audio-visual data links to provide for accurate inspection, maintenance and surveillance operations. The vehicle may be deployed in: difficult environmental conditions where tides or currents may be strong; in facilities where liquids may be hostile; around and under structures; and also inside pipelines, vessels or umbilicals, where space will be constrained.

***GO Science is a smart sensor SME company*** that supplies bespoke technology services and innovative products to blue chip customers in UK and overseas, where successful partnerships are already established with multi-national companies and 1st class academic institutions. Our business is export driven with customers in Germany, Holland and overseas.

***The company*** is expert in undersea acoustics, remote sensing, imaging and analysis; distributed processing systems; communications; low carbon, low energy autonomous underwater vehicles and sensors using artificial intelligence. This expertise and knowledge of the local economy has proven to be valuable in key relationships with overseas technology companies where GO Science performs a partner role for the UK navigation, sonar and undersea communications market.

***GO Science*** was formed late in 2002 by engineers who left BAE SYSTEMS at Filton with many years of successful experience in aerospace, maritime and undersea business sectors. The team is based in ***Set Squared's Business Acceleration Centre*** at the ***University of Bristol***, where academic, industrial, finance and service sector partners forge collaborative relationships to develop the regional and UK knowledge economy.

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