

Join Us at BlueZone Group!

BlueZone is hiring Systems Engineers for exciting projects in unmanned maritime systems

As an underwater technology company, BlueZone offers employees the opportunity to discover a career in the last frontier – the world’s oceans! Join a company with a passion for innovation, customer focus and solution delivery.

The entire underwater robotics domain is driven by the rapid development in robotics and consumer electronics – drones & phones – which makes available more powerful software payloads, reduced weight and footprint and increased endurance through new battery technologies.

The systems engineering roles at BlueZone will be an exciting role at the forefront of rapidly developing technologies, delivering advanced projects to our customers operating in harsh environments. You will work with an experienced and successful engineering team who are focussed on leading edge development.

[BlueZone is hiring Systems Engineers](#)



Double Eagle Mine Disposal System – Capability Assured

Capability assurance program will ensure future of Navy Mine Disposal



BlueZone Group is working with Thales Australia and Saab Australia to ensure the capability of the Double Eagle Mine Disposal System is maintained through to end-of-life of the Huon Class Minehunter Coastal.

The Double Eagle system provides an essential remotely operated capability to destroy mines in all environmental conditions at diver depth and beyond.

BlueZone Group CEO, Elizabeth Karpel, said that it was very pleasing for BlueZone to work collaboratively with Thales Australia and Saab Australia on engineering design work to ensure the capability of key elements of the Double Eagle system. “With more than 20 years of sustainment experience in remotely operated vehicle support for Navy, BlueZone is well placed to provide the electronics design know-how for modifications of components such as the Surface Applications Computer and Power Converter Unit.” BlueZone sustainment capability includes advice on modification of ship’s cabling and support for set-to-work and sea trials if required.

[Double Eagle Capability Assurance Program](#)

ClearSignal® Prevents Biofouling

Trials demonstrate effectiveness in two oceans

ClearSignal® anti-biofouling coating continues to demonstrate its effectiveness in reducing the impact of biofouling on buoys and subsea structures deployed in diverse locations in the world’s oceans.

In trials conducted with the Coastal Studies Institute in North Carolina, USA, comparison of one coated and one uncoated buoy showed significant reduction in biofouling on the coated buoy compared with the uncoated buoy.



In another trial underway on Australia's Northwest shelf, excellent results have been observed from coating applied to a subsea structure. The ClearSignal® coating is optically clear and so it does not obscure marking and labelling which is important for management and operation of subsea assets.

The desired lifespan of ClearSignal® is 30 years. The manufacturer, Severn Marine Technologies, has several case studies of long-term deployments where periodic inspections show excellent biofouling resistance and no deterioration of the coating system after long term immersion. The longest deployments to date are on the order of 10 years.

[ClearSignal® Anti-biofouling coating for long term protection](#)

BlueZone Group Birthday

BlueZone Group celebrated its 6th birthday a little late this year



We were very happy to finally get together to celebrate 6 years of BlueZone Group this month! BlueZone Group's birthday was in September and marked 6 years since ATSA Defence Services and UVS grouped together to build the company we are today.

This has been a year of fantastic highs including the announcement of the \$7m contract from Defence Innovation Hub, and a visit from Senator Hollie Hughes, and downs mainly caused by Covid-19. After a few months with many of us working from home it was great to have lunch together to celebrate this milestone and reflect on the last year. We are looking forward to a very exciting year ahead.

[Happy Birthday BlueZone!](#)

BlueZone Team is Growing

BlueZone Group welcomes our new Engineering Intern

Bailey Phillpotts joined our Engineering team as our new Mechatronics Engineering Intern this month. BlueZone has always believed in mentoring and developing the skills of the next generation and we are thrilled to have him on board.

Bailey is studying a Bachelor of Engineering, majoring in Mechatronics, Robotics and Automation Engineering at the University of Newcastle. We are sure that his interest in robotics will make him a great fit and that he will learn a lot from the hand-on experience gained working with our experienced engineers.



[BlueZone welcomes our new engineering Intern](#)

Events

Please join BlueZone Group at these upcoming events as travel restrictions ease around Australia!

We are keen to talk to you about how innovative new technologies offered by BlueZone can solve issues for your challenges in Australia's oceans, coastal seas, and rivers. We are happy to answer your questions and arrange on-site demonstrations and further discussion if required.

AIDN Australian Sovereign Capability Showcase – February 2022 – Canberra

BlueZone will join with other Defence SMEs in this policy symposium and showcase to highlight the critical role the Australian defence industry plays in contributing to Australia's sovereignty, security and safety.

It will also demonstrate the integral role our defence industry plays in Australia's economy through our sovereign supply chains; modern manufacturing practices; research and innovation; skills development; and regional employment.

Hydrospatial 2021 – 15 to 18 February 2022 – Cairns

The Australasian Hydrographic Society (AHS) will host its internationally recognised hydrographic conference program in Cairns in February 2022.

The theme of the Conference is: 'Hydrography of the Future'. This theme will focus on how the hydrography will develop further into the future noting the development of 'Digital Twinning', and the emerging name variants for 'hydrography' such as 'hydrospatial' or 'hydrogeomatics'.

New Products & Services

MicronNav 200 – Trittech's latest generation of USBL positioning systems

The MicronNav 200 system from Trittech is their latest generation of UltraShort Base Line (USBL) positioning systems. The compact and lightweight system has been designed for small vehicle applications including ROV navigation, AUV tracking and as an ROV location beacon, and for use as a diver tracking system.



The benefits of the new system include but are not limited to compatibility with the new Micron Battery Modem, more accurate USBL head, quick and easy mobilisation, and Google Maps™ software integration. It is easy to calibrate and has seamless integration into Genesis software.

The system comprises a surface MicronNav 200 interface hub and bespoke operating software under control of a topside PC/laptop, a surface USBL transducer with integral magnetic compass and pitch/roll sensors, and a subsea Micron Modem or Battery Micron Modem.

Underwater environments are not always clear, but the MicronNav 200 will enable you to know where you are and where you are going under the water. For more information on the MicronNav 200, contact BlueZone today.

[MicronNav 200 from Trittech](#)

General Acoustics UltraLab Advanced

Fully synchronised data for no drift and no subsequent synchronisation



The General Acoustics UltraLab Advanced is a state-of-the-art ultrasonic measuring system for analysing highly dynamic wave situations at superb time and spatial resolution. Two UltraLab Advanced systems can provide fully synchronised data from all sensors from both controllers, with no drift and no subsequent synchronisation required. If you need more sensors for more measurement locations, this solution would be a convenient option.

The synchronisation is realised with an implemented Precise Time Protocol (PTP). This is a custom option by General Acoustics, available for UltraLab Advanced and HF-series. A PTP-server, working as a grandmaster, provides the exact time stamp, which is utilised by the UltraLab systems as clients. Additional measuring devices can be interfaced as clients to the PTP-server, providing perfect synchronisation as well.

The time stamp provided by the grandmaster can even be linked to GPS-time, resulting in not just relative synchronisation, but absolute correct time as well for all synchronised UltraLab controllers and auxiliary devices.

The PTP-option adds another valuable feature to a straightforward UltraLab user experience: No calibration, no subsequent synchronisation, no water contact.

Two UltraLab Advanced systems can provide fully synchronised data from all sensors from both controllers.

SSF model SeaVent discontinuation

Product Change Notice for DeepSea Power & Light Single Seal Face SeaVent® Pressure Relief Valve

BlueZone supplier, DeepSea Power & Light, has advised that the Single Seal Face (SSF) SeaVent Pressure Relief Valve (PRV) will soon be discontinued. The SSF PRV has been in use for many years and is an original DeepSea Power & Light SeaVent design.

DeepSea Power & Light are accepting last-time purchases for the SSF model PRV at this time on a first-come, first-served basis. New orders will no longer be accepted after start of the second quarter of 2022.

As an alternative to the SSF, DeepSea Power & Light recommend the Double Dual Seal (DDS) PRV for its superior protection against leaks, simple installation, and similar depth rating as the SSF. DDS PRVs are readily available for purchase. Discount pricing may be available for large volume orders.

Please contact BlueZone for purchase inquiries and with any questions you may have regarding this notice.

[DeepSea Power & Light SeaVent® Relief Valves information link](#)

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