Company Profile

Bellinger Systems Pty Ltd provides a comprehensive range of engineering, electronic and electrical support services to Defence and industries. Bellinger's experienced staff have over 100 years of combined experience serving Defence and related industries having transitioned from Bellinger Instruments Pty Ltd after 52 years of service.
We can design, modify, upgrade or re-manufacture items/equipment to suit your requirements.

Bellinger Systems Pty Ltd is committed to partnering with you to optimise service life for the equipment you have invested in to ensure that the operational availability is met and within budget. We provide cost-effective, responsive and customer focused support solutions that optimises the availability of our customer's assets.

Bellinger Systems Pty Ltd has extensive experience in installation, including racking and cabling in both on-shore and ship-based environments. We design custom interface and remote-control systems and equipment to allow interoperability of systems at the data and RF interface. Bellinger Systems Pty Ltd also designs and manufactures equipment to meet customer requirements and to aid ship installation.

Our experience in installing trial systems in various environments has given us the ability to quickly react to unexpected circumstances and rapidly changing environments in the field.

We deliver repair services down to component level replacement which enables us to deliver a complete support solution either at our facility or onsite. We customise each job to provide the best and most comprehensive support, while optimising to meet client operational targets. We believe that our client's requirements are the focus of everything we do. We combine a "can-do" attitude with diligence and technical experience. Bellinger's facility is also equipped with a large range of test equipment which enables our trained staff to exceed our client's expectations.

Services Provided

1. Bespoke electronic equipment level and system level design and manufacture;
2. In-country design or build-to-print of electrical and electronic assemblies and equipment;
3. Drafting services including 3D modelling and drawing;
4. PCB design and prototype manufacture;
5. System integration, installation and commissioning;
6. Test equipment calibration;
7. Cable manufacture: power, audio, data and RF;
8. Supply of equipment, materials and spare parts;
9. Physical/environmental testing to MIL standards in conjunction with a specialised testing Laboratory;
10. Preventive and corrective maintenance on systems and component level items.

All of our work is performed to meet and exceed Australian Standards and manufacturers recommendations. Our active participation in business and regulatory bodies ensures a current view of industry requirements and expectations.

Bellinger's technicians are specialist trained, with extensive knowledge and experience in their selected fields. A large proportion of our management team, engineers and trades people have been working in the Defence industry for over 20 years.

Our expertise is often in demand when Original Equipment Manufacturer's support for products is withdrawn or simply non-existent. Our staff have a proven track record of "supporting the unsupportable", often for long periods after their projected use-by dates or until an often-delayed replacement platform arrives.

Quality Assurance and Accreditation

- Bellinger Systems Pty Ltd maintains an AS/NZS ISO 9001:2015 Quality Management System.
- Our premises is Defence Security Cleared and we continue to be a member of the Defence Security Industry Program (DISP).

Staff Experience On:

- 350 uniquely different items either repaired, overhauled or supplied to the ANZAC platform;
- Provide in-service support to Collins Class Submarines, Armidale Class Patrol Boats, HMAS Choules, Canberra Class LHD's, DDG's and SPO managed equipment; and
- Leading capabilities with Tactical Data Links (TDL).

Previous Projects

- ARC-210 reprogramming set upgrade;
- MTN and FIE upgrade work on ANZAC vessels;
- MV Sycamore bow thruster controls and inverter investigation and repair;
- Manufacture of High Data Rate Line of Sight (HDRLOS) units for Australian and New Zealand Defence Forces;
- Manufacture of Moveable Communication Rack (MCR) for use in the Nary Special Operations Vehicle (Nary-SOV) for the Battlespace Communications Operations Group (BCOG);
- Design and building prototype power management, data signal, interface converters and power distribution panels for current ANZAC platforms for Project SEA1442 Phase 4 Communications System Upgrade;
- Designed and developed to complete Link 22 evaluation and development suite which is currently being utilised by ADFTA to evaluate the benefits if Link 22 for Fleet;
- Design and integration of Link 22 capabilities across multiple Defence fixed sites;
- A specially designed test tool (Media Patch Panel) for Link 11/22 has been designed and built to aid in support, training and system testing. Two units are currently in service in Australia and there are promising international sales for this item;
- Link 16 design and installation in the ANZAC Class land based test site in Adelaide and on HMAS ANZAC; and
- Design and manufacture of replacement 24VDC uninterruptable power supply (UPS) control module for the 24V power supply on all ANZAC Class vessels.

Equipment Experience:

- RF, Communications and Navigation Equipment
- IFF System Equipment
- Radar/Sonar Systems
- Link 11/16/22
- Power Supplies/Inverters/UPS's
- Switchboards and Power Distribution
- High Current Circuit Breakers
- Control/Monitoring Panels
- Engine Control and Monitoring Equipment
- Test Equipment Repair/Calibration
- Circuit Card Assembly Repair
- Electronic Equipment Design and Manufacture
- General Electrical and Electronic Equipment
- Weapons Control
- Voice and Data Communication Systems Equipment
- Navigation Systems
- Precision GPS Systems
- Surveillance Receivers

Repair, Overhaul and Calibration Examples

- AC circuit breakers: current supply and measurement to 10,000A, 45 – 500Hz;
- Antennas including: radar, communications, countermeasures, direction finding, HF, VHF, UHF and IFF;
- System computers and servers;
- Communication switches, Red and Black, in particular DRS Shincom 3100 switch. Telephony and PABX, Intercoms and Broadcast Alarms;
- DC circuit breakers and meters up to 1000A;
- Diver communication including: Diver to Diver and Diver to Ship;
- Electronic Countermeasure Systems;
- Engine control and monitoring systems;
- External communications, including Satcom, UHF, VHF and HF radios, antennas, direction finding equipment and surveillance systems;
- Fire control systems including gun and missile;
- Ground support equipment for aircraft and helicopters;
- IFF systems;
- Internal communication systems including: public address, intercom and emergency broadcast;
- Lighting including: floodlights, emergency lights, signalling lights and divers lights;
- Link 11, 16 and 22 Systems designs, integration and maintenance;
- Microwave surveillance receivers;
- Power supplies, voltage regulators and convertors including: radar power supplies to 40kV, battery chargers, DC to single and three phase convertors and solid-state power supplies;
- Radar systems and modules;
- Recording systems: wide band, flight, instrumentation, analogue, digital, MIL-1553, SIGINT, CEPT1 & 2 etc;
- RF communication systems including: HF, VHF, UHF and SATCOM;
- Spectrum, vector, power, frequency and phase noise measurement is available to 40GHz;
- UHF Multicouplers including RF Products Inc. 800525 Multicouplers and USOM;
- Satellite navigation systems;
- Sonar systems and modules;
- Submarine fitted equipment, e.g. invertors, sonar, displays, actuators, servo's, EM logs and probes;
- Test equipment;
- TV cameras and monitors including: director aim and gun barrel cameras; and
- UPS systems including Clary Mil Spec units.

Company Details

ABN	89 633 874 656
ADDRESS	Unit 5, 2-8 South Street Rydalmere, NSW 2116 Australia
POSTAL ADDRESS	Unit 5, 2-8 South Street Rydalmere, NSW 2116 Australia
Tel:	+61 (0) 2 9684 1424
Website:	www.bellinger.com.au

Company Contact Details:

David Hartshorne
General Manager
dave.hartshorne@bellinger.com.au

Stephen Wood
Defence Projects Manager
steve.wood@bellinger.com.au