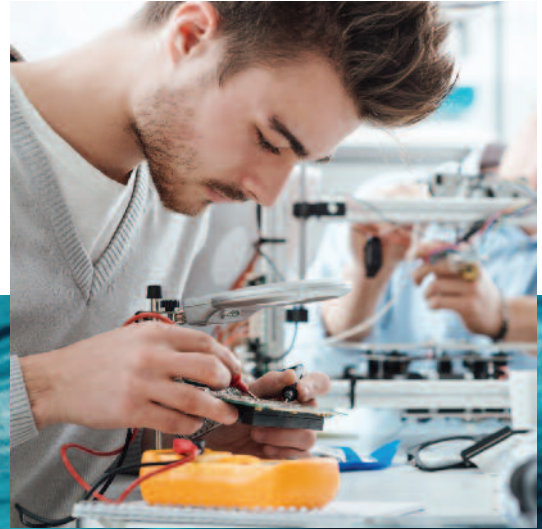




MODULUS TECHNOLOGY

Engineering Services

An AAE Technologies Group Company



# Modulus Technology Engineering Services

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



# Welcome to Modulus Technology

An AAE Technologies Group Company

As a custom engineering provider, Modulus Technology Ltd offers bespoke engineering services in a variety of forms across a wide spectrum of industries.

Along with its sister companies, Applied Acoustic Engineering and Ensign Subsea Systems, Modulus Technology is an independent and wholly owned subsidiary of the AAE Technologies Group with experience and capability in design, production, service and support, all quality assured to international ISO standards.

Although closely associated with the offshore energy sector having undertaken many projects within the marine oil, gas and renewable energy industries, Modulus Technology has also successfully completed supply contracts that include land survey, research, academic and defence related programmes.

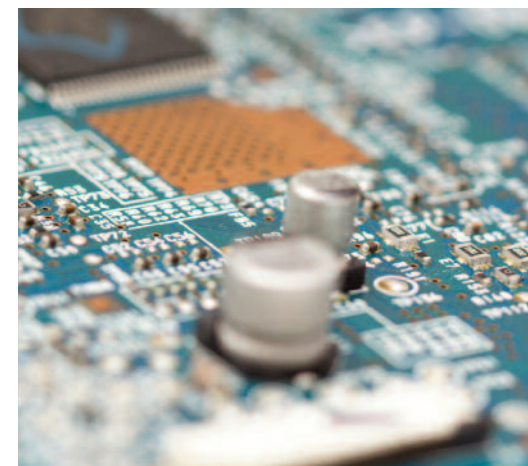


## Bespoke, Tailored Solutions

At the core of Modulus Technology is the drive to apply in-house engineering knowledge and experience to develop innovative solutions for client specific applications.

The portfolio of industries served by Modulus Technology is constantly developing as technological boundaries are invariably being pushed, requiring contractors to seek tailored solutions and bespoke engineered products.

Able to call upon its specialised resources of acoustic, mechanical and electronic engineering, software design, CAD capability and fabrication, Modulus Technology fulfils projects from concept to completion in close collaboration with its clients. Beyond manufacture, service and support contracts or planned maintenance programmes complete the offer.



Having a solid understanding of a wide range of industry sectors and the challenges faced on a regular basis puts Modulus Technology in an advantageous position when it comes to determining the most appropriate and cost effective method of completing such projects.

Examples of some of the tailored packages provided include;

- High-voltage solar powered seismic energy sources
- Acoustic load monitoring equipment for offshore lifting applications
- Subsea pressure housings capable of depth deployment to 6000 metres
- Power sources for land based borehole geophysical survey systems
- Subsea magnetic release transponders used in the fishing industry
- Acoustically controlled actuators for use within the offshore energy and dredging industry
- Submersible GPS receivers used in the underwater trenching and cabling industry

Further information and case studies are available from the engineering teams.



# Engineering support services

In addition to the bespoke, tailored engineering projects, Modulus Technology prides itself on being a multi-faceted organisation capable of undertaking and successfully completing a number of diverse engineering challenges and complementary activities.

## Design & Engineering Project Management

The technical teams have many years of experience in various engineering disciplines in particular electronics, through-water acoustics and telemetry, mechanical and electrical engineering, software design and programming. These skills have been successfully utilised predominantly in the field of subsea technology however other areas also benefit from this capability, allowing the company to provide a fully packaged engineering service from concept to completion. Post project, maintenance programmes ensure continuity of support.

## Testing & Calibration Services

As well as carrying out test and calibration procedures for all AAE Technologies Group companies, Modulus Technology also has the facility to offer these services to the wider industry, either as part of a larger project or as a standalone service. Using its in-house test facilities, Modulus Technology has the following at its disposal:

- Freshwater test tanks
- Saltwater test tanks
- Acoustic pulse test & calibration centre
- Full ocean depth hydrostatic pressure test chamber
- Low temperature test chamber

Furthermore, through its network of strategic partners, Modulus Technology can provide EMC testing, environmental testing including high temperature, high humidity and shock and vibration, and mechanical load testing and certification.



## AAET Group Technical Support

The skills and knowledge of the Modulus Technology engineering team are also being put to use as the technical support service for all of the AAE Technology Group companies - Applied Acoustic Engineering Ltd, Ensign Subsea Systems Ltd and Modulus Technology Ltd. With wide ranging and first-hand experience with all products supplied by companies in the Group, the technical support team can offer a 24/7 remote service through a number of service contract options.

## AAET Group Field Support

Modulus Technology employs a number of highly experienced field support technicians should problems occur with any piece of the company's equipment where remote support is not a viable option or when shipping equipment back to the nearest Service Centre is not possible. Proficient in the service, repair and maintenance of all group products, the factory trained technicians will travel to all parts of the world to ensure that equipment is put into good working order with the minimal of downtime.

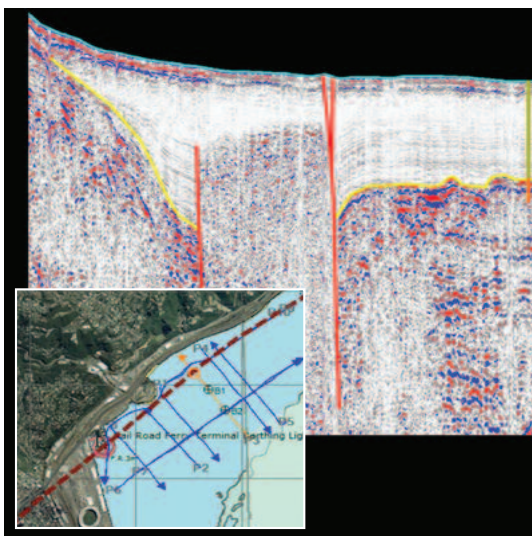
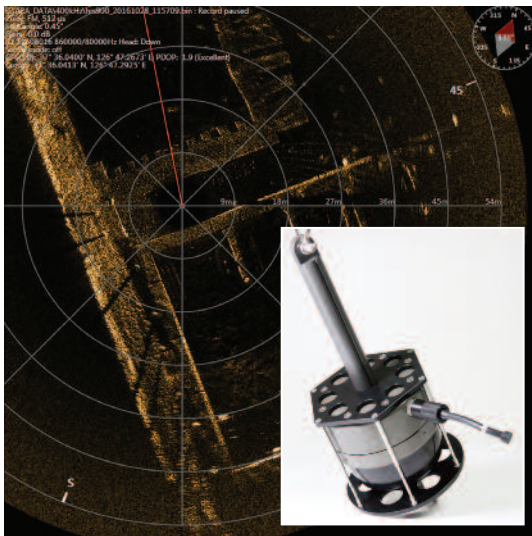
## AAET Group Training Provider

Modulus Technology recognises the fact that many of its clients are skilled engineers themselves, able to look after their assets either with or without remote support. However as technology progresses and evolves, gaps in knowledge can appear which is where the company's training services come to the forefront. Courses for operation, fault-finding, service and maintenance are available from Modulus Technology either in-house at the UK Headquarters or at a client's site. These courses can be tailored to suit the needs of individuals, or be general courses designed to provide a good overall understanding of the Group's products.



# Representation

Membership of the AAE Technology Group demands the highest standards of quality and first class service at all levels of its business, and while Modulus Technology proudly possesses these attributes, such qualities are also recognised in technology providers across the globe.



A number of carefully selected international design and manufacturing companies are being represented in the UK and beyond by Modulus Technology, specifically chosen for their synergies with the business operations of the AAE Technology Group, and for the ability of their products and services to align and complement its service and support functions.

This third party product representation is an important part of the company's business activities for specific and strategic market areas.

Examples of currently represented providers include;

## AML Oceanographic (Canada):

An innovative and leading manufacturer of Sound Velocity, CTD and Environmental sensors, probes and instruments.

## Echologger (South Korea):

Producers of high quality echo sounders, subsea altimetry, hydro-acoustic systems and advanced sonar instrumentation.

## Ilex Computing (UK):

An established software solution provider providing real-time data acquisition, control systems, database and bespoke client defined software. Much of this work has been in the offshore oil and gas exploration, construction and renewables industries.

## Triton Imaging (USA):

Triton Imaging is a developer of high-performance, highly automated software tools for seafloor mapping and underwater imaging applications, with products designed to acquire, process, fuse, visualize, and interpret data from a wide array of seafloor imaging sensors.

Modulus Technology works closely with these system producers to create highly effective partnerships capable of providing a first class sales and support service on both a local and international level.



Modulus Technology is an independent and wholly owned subsidiary of AAE Technologies Group with extensive experience in design, production and service – all quality assured to international ISO standards.

As a custom engineering provider, Modulus Technology has the capability and capacity to deliver services to a broad range of commercial industries and academic institutions, worldwide.



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