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The UK’s Subsea Sector – World Class for Over 30 Years

Ever since the very first UK oil was produced through the subsea completed wells of the Argyll field on 18 June 1975, use of subsea technology has played a major role in the development of the UK’s sector of the North Sea and this in turn has led to the development of a world class subsea industry in the UK.

Offshore oil and gas production using subsea systems is becoming an increasingly important element of the upstream oil and gas sector as companies seek to develop reserves in ever deeper and remote waters or attempt to maximise recovery from reserves in more mature provinces.

West Africa, Gulf of Mexico, Brazil and more recently, south east Asia are all becoming significant deepwater provinces whilst mature provinces such as the UK’s North Sea expect to see oil production through subsea wells account for over half of the total production from the province by 2010.

Never before has the subsea sector seen such a demand for its services, products and people, with subsea pumping, separation and gas compression now becoming a reality. These latest technologies will allow oil and gas to be transported along the seabed over increasing distances, allowing production from more remote locations or under the ice direct to shore – so called subsea to beach.

The subsea sector in the UK started on the back of a local market as the North Sea, both the UK and Norwegian sectors, developed to become one of the major offshore hydrocarbon provinces in the world. The ability to transfer skills and manufacturing facilities from defence and shipbuilding industries allowed the sector to grow substantially in the UK in the 1970’s and 1980’s, putting in place the basis for what has now become an industry with an overall global lead and whose expertise and experience is increasingly in demand worldwide.

This view is confirmed by an independent survey by the management consultants Arthur D Little on behalf of Subsea UK, which estimates that in 2007, there were 600 – 700 companies employing over 30,000 people in the UK’s subsea sector, generating revenues in excess of US$8.5 billion, an increase of nearly 30 per cent from the previous year. Exports account for over 50 per cent of products and services by value.

The now significant UK based subsea sector grew out of the need in the 1980’s for shallow water, economically marginal field development technologies on the UK continental shelf (UKCS), coupled with deepwater, major field developments in the Norwegian sector.

This unparalleled requirement saw the introduction of many new subsea and subsea related concepts. Shell Esso’s revolutionary Underwater Manifold Centre set new standards in remote, diverless subsea production systems with its insert valve technology, its diverless connection systems and through flowline Xmas trees and manifold. Trials were conducted on a subsea separator unit and a subsea slugcatcher was successfully installed and operated on the UKCS in the 1980’s.

Floating production systems also saw many firsts on the UKCS. Conoco’s Tension Leg Platform on the North Sea Hutton field and Sun Oil’s purpose built floating production system on the Balmoral field were both world firsts for this type of production system. These cutting edge floating production systems became the forerunners of floating systems all over the world.

Initially, there were a number of different arrangements for a subsea production system. To begin with these were based on a template arrangement but as the number of subsea systems grew, this arrangement was superseded by the now familiar clustered well arrangements which provide greater flexibility in terms of both equipment layout on the seabed as well as overall project schedule. Wells could be drilled and completed in a phased manner and additional wells could be include at a later date. Installation costs were also reduced as the need to install large, heavy steel templates was removed.

The now familiar subsea tieback arrangements came of age on the UK’s continental shelf as economics forced operators to tie remote reservoirs back to existing fields over ever-increasing distances. Hub and spoke developments became the norm with the use of existing facilities...
maximised to accommodate additional risers and production from adjacent satellite fields.

Flowline design was optimised to accommodate longer distance tiebacks and varying reservoir conditions. Reel laying became the norm in the UK sector for flowlines up to 16 inches in diameter reducing the, until then, high costs of pipeline installation. Pipe-in-pipe designs were conceived and installed to overcome thermodynamic challenges and use of flexibles for both flowlines and risers became accepted.

The UK sector also saw changes in the subsea business world as we saw the development of today’s subsea service sector industry with the start of a number of UK based subsea construction companies. These companies combined the ability to lay reeled rigid or flexible pipe with subsea equipment installation and maintenance.

The 1990’s saw the first oil from an area some 120 miles west of the Shetland Isles, the so called Atlantic Frontier. Here, with water depths exceeding 600 metres, the local environment makes this one of the most challenging areas of the world to develop and operate. Once again, UK based subsea technology and expertise has made this all possible.

Today, the UK can rightfully claim to have a world class subsea sector and workforce, delivering subsea solutions for not only the North Sea but elsewhere around the world. The technology base put in place over a 30 year period ensures that this important industry will continue within the UK for many years to come.
ABOUT THIS GUIDE

This guide has been produced by UK Trade & Investment and Subsea UK. It provides information on the capabilities of some of the UK companies involved in the subsea oil and gas sector.

THIS GUIDE

Among the full spectrum of subsea capabilities featured are:

- Subsea engineering
- Equipment manufacturers
- Inspection/testing
- Software modelling and simulation
- Pipeline integrity
- Training
- Project and asset management
- Subsea communication and control
- Diving and ROV services
- Subsea construction

The organisations are listed in alphabetical order by name, including their website and contact details (where these have been provided), followed by summarised information on the services provided.

Summarised example case studies have been used to illustrate this capability. These case studies have been provided by the companies themselves.

A matrix of key services and products provided by the companies listed in this guide can be found on page 36.

Additional and regularly updated information on Subsea UK member companies is available on the Subsea UK website (www.subseauk.org)

NOTE:

Whilst every care has been taken in compiling the information in this guide, UK Trade & Investment and Subsea UK cannot be held liable for mistakes or omissions, and inclusion of any organisation in this guide does not constitute approval or endorsement in any way. The information on specific organisations was provided by the companies themselves, and therefore the opinions and ideas expressed do not necessarily reflect those of UK Trade & Investment or Subsea UK.

It is the intention of UK Trade & Investment and Subsea UK that this document should continue to be developed as a useful resource.
UK TRADE & INVESTMENT IS THE GOVERNMENT ORGANISATION THAT HELPS UK BASED COMPANIES SUCCEED IN AN INCREASINGLY GLOBAL ECONOMY. OUR RANGE OF EXPERT SERVICES ARE TAILORED TO THE NEEDS OF INDIVIDUAL BUSINESSES TO MAXIMISE THEIR INTERNATIONAL SUCCESS. WE PROVIDE COMPANIES WITH KNOWLEDGE, ADVICE AND PRACTICAL SUPPORT.

UK TRADE & INVESTMENT

UK Trade & Investment also helps overseas companies bring high quality investment to the UK’s vibrant economy – acknowledged as Europe’s best place from which to succeed in global business. We provide support and advice to investors at all stages of their business decision-making.

UK Trade & Investment offers expertise and contacts through a network of international specialists throughout the UK, and in British Embassies and other diplomatic posts around the world.

We can assist at all stages of the business planning cycle, from inception to completion. Here’s an overview of what UK Trade & Investment does to foster companies’ growth:

**In The Export Market**
- Support to build export capability.
- A range of services to assist in exporting for the first time.
- Advice and support including the highly regarded Passport to Export programme that puts together in one simple, responsive process all the tools that exporting companies need to grow their business. The package includes advice from an international trade adviser to help develop an export strategy, identify gaps in international trade skills and then provide assistance with training, help before a visit to an overseas market and post-visit evaluation.
- Information and opportunities including sales lead and bespoke research carried out by overseas teams that can be accessed via the web. Programmes of face-to-face meetings can also be arranged in-market and with key decision makers brought to the UK.
- Making it happen by arranging meetings with key business contacts, and financially supporting eligible companies to travel in groups, or at times alone to tradeshows through our Tradeshow Access Programme (TAP), or on overseas missions. UK Trade & Investment puts companies in touch with carefully selected potential buyers in their sector who are regularly invited to the UK to see the best we have to offer.

**Investors To The UK**
- In-depth information provision.
- Support with doing international business from the UK.
- UK Trade & Investment will provide targeted companies with a range of support including (where appropriate) a client account manager who will help existing investors develop their business. These account managers will advise on appropriate usage of trade services including sales leads and market research.
- UK Trade & Investment will advise on the UK as a potential business location from the inception of the decision-making process through to detailed exploration of location options.
- A core of R&D specialists will work with R&D intensive investors to establish what leading edge R&D those investors need. They will then work with appropriate partners, including UK Trade & Investment and BERR staff, companies, universities and other researchers, to find the best solutions. The R&D teams will present companies with the optimum business solutions for their needs.

These specialists will also work in support of R&D intensive UK companies to help them grow their international business. Innovative and technology-led companies can take advantage of the Global Partnerships Programme (GPP) that is open to companies willing to share new technology in order to build a business with a UK partner.

For further information and contact details of all UK Trade & Investment Oil and Gas specialists please visit [www.uktradeinvest.gov.uk/ukti/oil_gas](http://www.uktradeinvest.gov.uk/ukti/oil_gas)
ESTABLISHED AS A FOCAL POINT FOR ALL STAKEHOLDERS IN THE SUBSEA SECTOR, AND TO MAXIMISE OPPORTUNITIES ON A GLOBAL BASIS, SUBSEA UK IS A SELF SUSTAINING PRIVATELY FUNDED TRADE BODY THAT HAS NOW OVER 190 MEMBERS, REPRESENTING THE ENTIRE SUBSEA SUPPLY CHAIN FROM OPERATORS, MAJOR CONTRACTORS, EQUIPMENT VENDORS THROUGH TO COMPONENT PROVIDERS.

SUBSEA UK

In recognition of the sustained growth in the subsea sector and its growing importance to offshore production, Subsea UK was formed in 2004, to promote and champion the sector’s capabilities and technologies. With over 190 members, it was the first company of its kind, and is fully self-sustaining, funded entirely from the private sector by its membership. It represents the interests of the whole industry from operators, major contractors through to small technology oriented businesses as well as academic institutions.

Subsea UK provides a national forum for collaboration, diversification and commercialisation of technology, and coordinated marketing on a UK and global basis.

The capability of Subsea UK member companies is presented within this document, the aim of which is to promote to an international audience, the full scale of the sector and the services and products on offer. Few appreciate the intense growth in this sector over the last few years, nor the impact that subsea is having on global production now that the era of “easy oil” is drawing quickly to a close.

The UK supply chain holds immense knowledge and experience of subsea operations. Nevertheless, with a rapid growth in export markets, the UK supply chain has adapted quickly to focus on an increasingly international market, and a primary role of Subsea UK is to assist companies to extend their marketing reach and to make vital connections with overseas clients. With exports now for the first time extending beyond 50 per cent of the revenues for the UK subsea sector and continuing to grow, the importance of Subsea UK as a supporting body has increased, and continues to provide more services and opportunities to maximise this growth potential.

To this end, activity in supporting small to medium sized companies has been a major focus for Subsea UK, and this will continue to be a central pillar of its operations in years to come.

Subsea UK’s vision is to bring together the industry and academia to further develop the sector such that the UK is recognised as the main subsea centre of excellence in the world.

Key priorities for Subsea UK are:

■ Ensuring that the UK maintains its world leading position in the subsea sector.
■ Creating a centre of Subsea excellence within the UK.
■ Implementing programmes to address key skills issues in the sector.
■ Bringing industry, academia and government together to accelerate the development of future technologies.
■ Supporting member companies in diversifying into other sectors and geographical markets.

If you are an organisation with a base in the UK, contact us to find out how Subsea UK can help you, your business and your sector.

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THE NATIONAL SUBSEA RESEARCH INSTITUTE (NSRI) IS ESTABLISHED AS A PARTNERSHIP BETWEEN ACADEMIA AND INDUSTRY TO PROVIDE A STRATEGIC FOCUS ADDRESSING THE LONGER TERM CHALLENGES FOR THE SUBSEA SECTOR INTERNATIONALLY.

NSRI is to deliver fundamental and applied research activity to the Subsea industry, and is intended to be a flagship research organisation maintaining the UK at the forefront of global Subsea technology and development.

Founded by the University of Aberdeen, the University of Dundee, the Robert Gordon University, and Subsea UK, with support from Scottish Enterprise, NSRI has been created to strengthen and maintain the UK’s position as a centre of excellence for Subsea technology research and skills development.

NSRI activities focus on niche research areas fundamental to the future of Subsea oil & gas field development, marine renewable energy, and wider underwater applications in the defence, communications and other sectors. Research is channelled through projects within over-arching themes which are designed to align with research needs for industry.

NSRI is developing its own unique research strategy and core strengths designed to benefit the industry going forward within a 10-20 year time horizon. Research is concentrated in those areas not presently being addressed on a strategic basis at other research establishments, and NSRI will act in synergy with other research organisations around the world, and will form collaborative partnerships with such organisations where appropriate for the maximum benefit of the UK Subsea industry.

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www.3sun.co.uk

3sun is a new name in the world of Control and Instrumentation but that should not disguise a wealth of knowledge and know-how built up over many decades.

3sun enjoys a challenge and we have the skills and inspiration to answer the toughest questions and overcome the trickiest problems being faced by Operators engineers, procurement and construction contractors around the world.

Specialists in Subsea and Surface Hydraulic Control Systems, 3sun is one of only a few companies offering full modelling and animation capability for system design and fault diagnostics. And we maintain the highest standards, proved by our accreditation to ISO 9001 quality management system, ISO 14001 for environmental management and OHSAS18001 for health and safety systems.

AGR Subsea Ltd

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AGR Subsea Ltd provides seabed intervention services using our ClayCutter X and SeaVator excavators. ClayCutter X, in conjunction with our new, 9,000 hp pump set, has recently completed pre-lay trenching on the Ormen Lange field offshore Norway. In water depths of around 850m the equipment excavated ten sites at a net trenching rate of 24 m³/hr, with instantaneous rates of up to 500 m³/hr. The work was completed in less than half the scheduled time and without any downtime. ClayCutter X is designed for trenching in soils up to 500 kPa shear strength and can be used for pipeline route preparation, glory-hole excavation and seabed smoothing prior to installation of manifolds and similar subsea structures.

Combined with our proprietary V-jet systems the SeaVator Mass Flow excavators can trench pipelines up to 60 inches in diameter in water depths up to 150 metres and soils up to 50 kPa. SeaVator excavators are also ideal for free-span correction, sand wave levelling and uncovering subsea architecture for IRM and decommissioning purposes.

Using two sonar heads deployed at 90 degrees to one another we give a real-time view of excavation activities. Our water-powered SeaVator, deployed on drillpipe or flexible riser, can excavate in any water depth.

Our 3,000 hp diesel-driven water pumps are suitable for other activities including temporary water injection and pipeline flooding.

AKE Ltd

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AKE is a leading international security risk mitigation company providing a variety of fully integrated services. AKE distinguishes itself from other security services companies by taking a proactive, intelligence-led approach to assessing, monitoring, training for and protecting against risk.

AKE is operational globally and has supported the international energy industry for many years, opening our office in Aberdeen in 2006, and being the first company of our kind to establish a permanent presence in the city. We also work very closely with the UK West Africa Action Group (WAAG) based in Aberdeen, and are its security and risk mitigation partner company.

Since 1991 AKE has provided international businesses with a wide and integrated range of specialist risk services such as real-time country intelligence and alerts, hostile environment and travel awareness training, risk assessments and briefings, security audits and medical training. We count among our many clients, governments, energy and insurance companies, non-governmental organisations (NGOs) and media networks. We have demonstrated that security concerns – if properly addressed – should not automatically deter from operations in any area of the world, nor should they be a cost centre. We show our clients how to reduce risk and achieve business objectives safely and successfully.
CASE STUDY

Fast Track Subsea Project Delivery

As the oil and gas industry continues to face many challenges related to delivery constraints and lack of resources, the Aker group of companies show off their unique capabilities by working in close cooperation to complete the Reliance Industries’ record breaking, fast track project, which produced first oil on 17 September 2008.

The Aker family of companies has been responsible for the entire MA-D6 field development, located in the Bay of Bengal, offshore India.

Aker Solutions has manufactured and delivered a complete subsea production system and managed the installation of the subsea equipment. Aker Floating Production has converted and delivered the FPSO Dhirubhai 1, while Aker Solutions delivered process equipment and a mooring and offloading system to the FPSO.

Reliance Industries received delivery of the subsea system and FPSO in less than 16 months after the initial contract award. The entire field development – from first discovery to first production – has taken less than two and a half years to complete. Rapid decision making and parallel working from Aker Solutions has made this fast-track project a success.

“Never has such a complex deepwater project been delivered quicker from a supplier standpoint, and never has a field been developed that quickly”, says Remi Birkeland, senior vice president, Aker Solutions. “We are proud to have worked with Reliance Industries on this record breaking, fast-track project.”
The Aquanos Endurer, due for delivery in 2009, is a multi purpose DPII Dive Support and Light Construction Vessel specially designed for operation under severe weather conditions and with high maneuverability and station keeping capabilities.

The Aquanos Enforcer, also due for delivery in 2009, will be a purpose built, state-of-the-art DPIII Dive Support Vessel designed to operate under NORSOK regulations.

The third vessel to join the fleet in 2009 is the Aquanos Enabler, a multi purpose DPII ROV and Light Construction Vessel.

All vessels will be complimented by Aquanos owned and operated Work Class and Observation Class ROVs.

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Atkins Boreas provides independent technical excellence in the fields of subsea and pipeline engineering to the oil, gas and energy industries. Our emphasis is on challenging deepwater and high pressure high temperature (HPHT) facilities. Our services encompass the full life cycle of subsea facilities from early engineering, through project support to operations. Our aim is to be recognised as the leading consultancy within the business areas and geographical regions in which we work.

Aubin Ltd

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Aubin is a privately owned independent designer, developer manufacturer and supplier of chemicals and chemistry related technology to the international oil and gas industry.

Aubin designs, develops manufactures and supplies innovative chemistry based solutions to the subsea industry. Our novel gel technology is widely used for pipeline pigging, cleaning and commissioning, while we have a range of innovative solutions for subsea insulation, sealing and buoyancy.

We maintain a staff of highly trained and experienced chemists and technologists capable of developing “bespoke” chemical technology to meet the ever growing demands of the subsea industry.

This high level of specialist expertise when combined with our knowledge of oil industry challenges developed over twenty years in business has resulted in Aubin being the partner of choice for many subsea chemicals.

Balmoral Offshore Engineering

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With more than 20 years’ experience in syntactic foam, polymer and elastomer design, engineering and manufacturing, Balmoral provides a global service from concept development through detailed design, manufacturing and testing.

Products used around the world include rigid and dynamic riser buoyancy, ROV/AUV and subsurface buoyancy, elastomer cable protectors, bend restrictors, stiffeners, clamps and riser protection guards.

Balmoral distributed buoyancy modules en-route to the Indian Ocean

The company also operates its own hydrostatic test centre in Aberdeen which accommodates a variety of products from small systems through to the largest rigid riser modules.

Trade names:
Durafloat™: Marine drilling riser buoyancy
Duraguard™: Subsea cable protection Oceanus™: Surface/subsurface buoyancy
Supatherm™ Bundle hybrid offset riser high-temp buoyancy

Bibby Offshore Limited

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The areas we have applied our knowledge and experience successfully include:

- Aprocurement support, production advice & client representation
- analysis and review of subsea architecture including flexible pipes, risers, umbilicals, power cables, flowlines and moorings
- concept and feasibility studies for floating offshore systems including the vessel, moorings, risers and offloading equipment
- insured risk and failure analysis
- product development for new offshore applications
- joint industry projects (JIP)
- offshore monitoring and instrumentation applications

CASE STUDY

Remote Flooding and Pigging Operations

BJ PPS is at the forefront of the industry, in relation to the deepwater and ultra deep water offshore pipeline business. It has the capability to provide competent and quality pipeline services worldwide for the pre-commissioning of deepwater and ultra deepwater oil and gas pipelines.

BJ’s Remote Flooding Module (RFM) is deployed to the seabed to flood a pipeline, using the available seawater pressure (Hydrostatic Head) outside the pipe as a source of power and water, to flood and pig the lines, yet still meeting the desired filtration and chemical protection specifications.

The RFM removes the need for downlines and connections to the surface vessel, and it also negates the need for the vessel to remain on station and allows it to move away and carry out other tasks. The RFM uses a rigid loading arm for the subsea connection and it is extremely “ROV friendly”.

When the RFM has completed flooding operations, the Hydrostatic Head has equalised and the pig has stopped moving, an RFM Boost Pump Skid is used to complete pigging operations. The Boost Pump Skid is connected to the RFM by use of an interface plate by ROV and allows full ROV hydraulic power to the Boost Pump to maximise performance. A subsea hydrostatic test pump skid is also available which facilitates remote hydro test from the sea bed.
The creation of a new company, Caley Automation Ltd, is set to further boost the company’s specialist handling controls capabilities.

This year Caley celebrates 40 years continuous service to the offshore and marine industry.

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Based in Scotland, Caley has a strong international reputation for uncompromising design integrity and for developing Marine Handling products of the highest quality.

Caley operate from two locations in Glasgow.

■ At the company’s modern design centre an experienced team of engineering professionals, using the latest software tools, work with clients to develop equipment design and solutions for given projects.

■ At the 20,000 sq. ft. manufacturing facility, which is possibly the best equipped of its type in the West of Scotland, product designs are built, commissioned and thoroughly tested, in a controlled environment. Not does the company benefit from the excellent local infrastructure at this location, which is only minutes from Glasgow International Airport, but with it own quay facilities, large structures are directly loaded out to the River Clyde.

To compliment the company’s wide range of original design, manufacturing and professional project management activities, Caley also provide clients with a wide range of Engineering Consultancy and Field Support services.

Products areas include

■ Pipelaying equipment (Tensioners, carousels, pipe clamps, stingers)
■ Submersible handling equipment
■ ROV handling systems
■ Dive handling systems
■ Specialist winches for seismic and oceanographic vessels
■ Heavy weather boat davits
■ Marine cranes
■ Active heave compensation

The unique Coda Echoscope™ real-time 3D sonar is one of the company’s key products. With a growing range of applications, including homeland security, defence, underwater construction, ship hull scanning, bridge inspection, contraband detection and search and recovery, the Echoscope is revolutionising subsea visualisation.

It is the only tool available that can produce globally referenced intuitive 3D data in zero visibility waters. Requiring minimal training, it can be operated from any platform including small inshore patrol boats, ROVs, AUVs and from fixed sites.

The Echoscope can be used on its own and is also available as the key component of the integrated UIS (Underwater Inspection System) and the new CMS (Construction Monitoring System).

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CodaOctopus is recognised internationally as a specialist in underwater technologies for imaging, mapping, survey, defence and homeland security. A range of geophysical survey solutions includes the Coda DA2000, which provides fast and powerful performance to the world’s major survey companies. The Octopus F180series offers a choice of precision attitude and positioning systems including the F180R remote inertial measurement unit complete with a subsea housing.

The unique Coda Echoscope™ real-time 3D sonar is one of the company’s key products. With a growing range of applications, including homeland security, defence, underwater construction, ship hull scanning, bridge inspection, contraband detection and search and recovery, the Echoscope is revolutionising subsea visualisation.

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The Echoscope can be used on its own and is also available as the key component of the integrated UIS (Underwater Inspection System) and the new CMS (Construction Monitoring System).

All Coda and Octopus systems are backed by an unrivalled commitment to after-sales support with complimentary 12 month membership of CodaOctopus team.

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The Energy Technology Centre at Cranfield University focuses on:

■ power generation technology
■ offshore technology and subsea engineering
■ risk management and reliability engineering

The Centre offers specialist research, education, training and consultancy in wet and dry renewable energy, biomass conversion and energy from waste, process simulation, diving and underwater technology, offshore materials engineering, subsea engineering, risk management and reliability engineering.

Cranfield University’s MSc in Offshore and Ocean Technology is a flagship postgraduate course Accredited by the Institute of Marine Engineering, Science and Technology (IMarEST) for CMarTech and MIMarEST, the course aims to provide an understanding of the underlying science, engineering principles and relevant management techniques in
relation to one of six specialised options. The MSc has also been approved by the Energy Institute (EI) for membership, and as meeting the Engineering Council (UK)’s Further Learning requirements for Chartered Engineer registration under UK SPEC. The programme has a genuine international reputation, regularly attracting students from around the world.

The Centre also offers a range of specialist short courses which are also highly regarded within the Offshore industry.

CTC MARINE PROJECTS

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CTC Marine Projects is a major trenching, cable lay and subsea installation contractor. The company operates the world’s largest, most modern and technically advanced fleet of marine trenching vehicles, positioning it as a key enabler within the international offshore construction market.

CTC Marine Projects specialises in:
- The trenching of subsea pipelines, flowlines and cables.
- The installation of cables (umbilicals, ISU’s, power, permanent seismic and telecommunications) and flexible flowlines.

The company plays a pioneering role in global subsea markets. It is the only contractor that can trench any product in any seabed condition or water depth.

- Flowline / Pipeline laying
- Flowlines, Flexible and Pipelines
- Subsea Construction
- Subsea Umbilical / Power Cables
- Trenching

Cutting Underwater Technologies Ltd.

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www.cut-group.com

TS TECNO SPEACE was established in Genoa, Italy, in 1981. In 1991 they developed an innovative, highly efficient, patented, Diamond Wire Cutting System.

Thereafter the CUT (Cutting Underwater Technologies) Group of companies, headquartered in Aberdeen, Scotland, was established in 1999. Their mission? To offer a range of services that utilised the advanced DWCS (Diamond Wire Cutting System(s)) developed by Tecnospamec. The primary focus for the new technologies was the global platform and pipeline decommissioning markets. The System has been extensively used in cutting jacket legs, subsea pipelines, flexibles conductors, mono-piles and anchor chain, with maximum efficiency and unsurpassed cost competitiveness.

Now with operational bases in USA, Norway, Singapore and Brazil Cutting Underwater technologies can offer “Any Cut, Anywhere”.

CTSL

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CSL delivers subsea developments from concept to completion, offering a comprehensive service across every stage in the development of a subsea field including:

- conceptual, front end and detailed engineering
- project management
- offshore construction assurance and onshore inspection
- subsea operations support
- the provision of skilled personnel

Acting on behalf of oil and gas companies, CSL combines the culture and experience of an operator with the delivery focus of a contractor to deliver the best possible technical and commercial solutions across the lifecycle of subsea projects.

Since the company’s inception in 2000, CSL’s team of over 190 subsea specialists has supported clients in more than 22 countries and currently manages project costs of around £350 million for a variety of major and independent oil companies.

CSL has offices in Aberdeen and London.
DES Operations Limited

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Subsea processing and production optimisation specialists DES are based in Aberdeen and with offices in Houston. DES core business is the identification, evaluation, design, installation & commissioning of a full range of subsea production optimisation projects including, well stimulation, multiphase pumping and metering.

Using their unique MARS (Multiple Application Re-Injection System), DES offer a universal solution that delivers subsea processing capability in both brownfield and greenfield arenas. DES are a Cameron Technology.

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The DOF Subsea Group is a specialist subsea service business that provides survey, construction, inspection, repair and maintenance services which involve complex and challenging engineering in an international environment.

DOF Subsea owns a large fleet of modern subsea construction, intervention and survey vessels that enable us to offer differentiated positions with our clients and work in long term relationships, which enhance service delivery and reduce overall risk.

In addition to 25 offshore vessels, DOF Subsea owns 31 ROV systems, 1 AUV system and diving spreads.

Our core business is project management, engineering, vessel operations, survey, remote intervention and diving operations primarily for the oil and gas sector on a worldwide basis.

DOF Subsea has a presence in all major offshore hubs and employs more than 800 skilled employees worldwide. DOF Subsea’s mission is to work with our clients to achieve their goals through the provision of superior world class services.

Dominion Gas

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Dominion has Gas Production facilities in UK, Norway, Baku & Singapore. We will be opening new plants which will provide a full network of global supply hubs and support to our already existing sites

Dominion can supply a full range of single cylinders and cylinder packs. Dominion’s award winning CATS Tracking System enables clients to track their gases & equipment cylinder packs via the Web Portal. This has been of value to International Subsea Customers working across different time zones.

Dominion can provide primary Turnkey Engineering Packages for gas applications, inc design, installation, commissioning and maintenance. This supported by an offshore engineering team.

Deep Ocean Subsea Control Innovations Ltd.

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Deep Ocean Subsea Control Innovations Ltd. has a wealth of experience available in subsea control systems support, we provide global subsea control systems consultancy, service, supply and design.

This includes support with hydraulic controls and distribution systems, electrical control and distribution systems, including jumper bundles, jumper cables, Subsea Distribution Units (SDU), and distribution systems.

We specialise in innovative bespoke subsea control solutions such as our new Smart Subsea Distribution Unit (SSDU), or our ROVcan ROV replaceable controls canister system.
DUCO Ltd

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DUCO’s Newcastle facility is Technip’s centre for Umbilical engineering excellence with overall responsibility for worldwide product and project engineering, FEED studies, industry related programmes and research and development activities. DUCO has recognised engineering specialists in the field of umbilical system design and, as part of the Technip group, has access to extensive and specialist engineering resources covering all aspects of the onshore and offshore oil and gas industry.

For more than 30 years DUCO Ltd has been heavily involved with subsea production pioneering projects many of which has been very demanding and challenging to both DUCO and its clients. It is as a result of such projects that DUCO has developed high level skills and knowledge that, coupled with investment in plant and equipment, now allows the design and production of large and complex Umbilical systems. Additionally, as the industry continues its quest into deeper water and harsher environments the basis will allow DUCO to continue to engage in the increasingly complex project requirements. DUCO will continue to constantly challenge the limits of existing technology to remain at the frontier of Umbilical technology.

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Endeavour Search & Selection Ltd is an independent consultancy offering retained HR services, with a focus towards Executive Search & Selection Solutions. Assignments cover all levels from Director/CEO/Chairman to middle-management and senior professionals through to more junior roles with specific skill sets, across all disciplines, including Geoscience & Engineering, Sales & Marketing, HS&E, Contracts & Procurement, Finance, Operations, HR, IT & Technology, Supply & Logistics, etc. Assignments are conducted across the UK, throughout Europe, and internationally. We also conduct ad-hoc HR services such as salary surveys, assessment centre, competency development, appraisal design, project management, etc.

Ecosse Subsea Systems Ltd

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Trenching, burial and technology specialists to the marine and oil and gas markets.

Ecosse Subsea Systems (ESS) is an industry leader and innovator in designing and developing specialist tooling systems for the subsea oil and gas industry specifically in the field of submarine umbilical and pipeline lay and burial operations.

Established in 1996, ESS has earned a global reputation for providing experienced personnel with unparalleled project management, commercial, contractual, and operational experience.

“Our vision is to be the customers’ first choice as a supplier of safe, high quality and reliable trenching and associated Subsea services.”

Our capabilities include

- Provision of Client Representatives
- Innovative Technology Development
- Commercial / Contract management and dispute resolution
- Provision of Offshore Operators, Technicians and Supervisors
- Project Management and Subsea Engineering

First Subsea Ltd

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The UK’s leading supplier of subsea connection systems, First Subsea Ltd is an innovator in subsea connection and mooring systems for deepwater platforms, FPSOs, subsea field buoy, pipeline and turret architectures and marine energy devices. It is also a member of the Subsea UK Trade Group and The Society for Underwater Technology.
The first company to develop and deploy ball and taper-based mooring technology, First Subsea’s Ballgrab connection system is currently used for buoy moorings to FPSOs and deep water SPAR buoys, diverless bend stiffener connectors, pipeline recovery tools, production risers including SCRs. New markets include marine energy moorings and handling solutions for wind, wave and tidal devices.

Used in over 200 subsea mooring installations worldwide, Ballgrab connectors are available in a range of sizes up to 2500mT MBL.

Recent First Subsea projects include setting a new depth record of 2,440m for ball and taper mooring connectors on Shell’s Perdido Development in the Gulf of Mexico, diverless bend stiffener connectors for two STL buoys destined for the Neptune Deep Water Project North and South, and recovering rigid and flexible pipeline from under rock berms during Frigg field decommissioning.

**CASE STUDY**

**First Subsea Gets to Grips with Buried Pipelines**

Subsea connector specialist, First Subsea, has successfully completed the removal of rigid and flexible pipeline from under rock berms during North Sea field decommissioning. Using its ball and taper connector technology, the company has developed new pipeline handling technologies for 2”, 4” and 24” diameter pipe buried up to 1.5m deep.

The 4” and 24” diameter pipeline tools use a modified male connector inserted within the pipeline and the connector’s balls activated to ‘bite’ into the pipe wall, creating a tear-drop shaped tapered indent. After the pipe has been dragged out from under the berms, the tool’s balls are disengaged and the tool reused.

For the 2” tool, First Subsea has developed the first pipeline handling tool that reverses the normal ball and taper geometry.

The balls are positioned inside the tool rather than outside allowing the tool to grip the pipe on the outside rather than the inside. Protective external surface coatings often used on subsea pipelines can be accommodated by the 2” tool design.

The 2”, 4” and 24” tool designs are custom engineered reflecting the size, condition, and safe working load on the pipeline. They can be fitted with either a clevis head or padeye allowing recovery of the pipe to the surface ship or left in wet storage on the sea bed for subsequent removal.

For more details on First Subsea’s pipeline handling tools, Email: info@firstsubsea.com or visit www.firstsubsea.com.

Framo Engineering was established in 1983 and today is owned by Frank Mohn AS and Schlumberger and key employees. The aim was to be a systems supplier of enhanced recovery products. The main objectives of these products were to reduce cost, enhance recovery, tie-in of marginal satellite fields, long-distance tie-backs and deepwater developments. Today, the Framo Engineering name world-wide recognition and is synonymous with enhanced recovery system technology; subsea boosting (multiphase, Raw Seawater Injection and Wet Gas Compression), pump controls, multiphase and wet gas flow meters, compact manifold, swivel stack systems and providing the technical solutions to meet the market growing needs.

Framo UK is a subsidiary based in Aberdeen, with the parent Company (Framo AS) headquarters are in Bergen, Norway.
Fugro Survey Limited

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Fugro Survey Limited forms part of Fugro’s Offshore Survey Division and has bases in Aberdeen and Great Yarmouth. Operations are conducted primarily on the North West European Continental Shelf, Mediterranean, and West Africa regions. Fugro Survey Limited operates a fleet of four dedicated vessels that are permanently equipped with survey spreads, all of which are primarily geophysical/hydrographic vessels and an Autonomous Underwater Vehicle (AUV).

In addition the Company provides surface/subsea positioning equipment and services to other contractors and organisations, deployed from their vessels, barges and rigs.

Global Marine Systems Ltd

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Global Marine Systems Ltd ROV Training School provides courses for new entrants into the industry as well as a certificate of competency scheme. The 3 week IMCA (International Marine Contractors Association) aligned ROV Pilot Technician course is delivered at Global Marine’s Portland facility. Practical and operational training is carried out on actual ROV equipment.

Emphasis is placed on the skills required by an ROV Pilot/Technician, including fault finding, maintenance and piloting. Delegates become familiar with ROV equipment and operations through operation of an ROV at our quay side facility, use of a work class ROV simulator, and detailed training on system components such as a fully working ROV together with hydraulic and electrical components. The course also introduces the delegate to a number of subsea surveillance systems to include, cameras; sonar’s and cable/pipe trackers.

We are the world leader in physics-based 3D and 4D solutions that allow our clients to quickly and accurately plan, rehearse and monitor complex installation and maintenance operations:

- rapid response to operational challenges
- true visualisation of operational outcomes to get it right first time
- consistent, repeatable and measurable operational training at low cost
- easy to generate 4D media to communicate complex concepts
- enterprise tools to reuse graphical and data resources within and between organisations.

Uniquely our products cover the whole development cycle including:

- Front end engineering design
- Shore based and operational integrated virtual pilot training
- Live operation monitoring
- Mission review and information exchange.

Our technology is matched by our pro-active operational support, with dedicated support and project teams.

Our expertise is based on 20 years experience at the cutting edge of computational mathematics and we still retain our original, exceptional engineers. We value long-term relationships and our clients stay with us because we do what we say we will do.

Other Training available in the form of HV, Fibre Optics and Assessors. All courses can be tailored to suit customers training need.

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General Robotics Ltd (GRL) is the home of professional simulation software for the offshore oil and gas industry.
Helix Energy Solutions Group

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Helix Energy Solutions, Inc. provides life-of-field services and development solutions to offshore energy producers worldwide. Helix actively reduces finding and development costs through a unique mix of offshore production assets, service methodologies, and highly skilled personnel.

Helix Energy Solutions is a marine energy service company providing alternate solutions to the oil and gas industry for marginal development, alternative development plans, field-life extension, abandonment and salvage. Our business scope is worldwide, with operational capabilities ranging from shallow water to 10,000 FSW, and on-going projects in the Gulf of Mexico, the North Sea and Asia/Pacific regions.

Over the past 35 years Hockway have built up an international reputation for excellence and are now one of the global leaders in the market. Hockway offer a complete CP package from initial investigative survey through engineering design, manufacture of equipment, site installation and commissioning of systems with subsequent planned operational inspection and maintenance. Hockway has recently been building a number of regional offices throughout the Middle East to support our clients more effectively.

Hockway has recently formed a joint venture with Deepwater corrosion services of Houston and now brings to the European market a comprehensive range of innovative products specifically designed to provide cost effective life extension solutions for Retrofit applications.

To ensure a comprehensive corrosion control service for our clients we have a number of alliances with market leaders from around the world. These include Retrowrap Splash zone protection systems for Risers and caissons.

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Hydorasun has grown to become Europe's premier provider of Fluid Connectors, Hoses, Fittings and Process Control Instrumentation products to a range of industries including Oil & Gas, Petrochemical, Utility, Defence, Marine & Renewable Energy.

The company is headquartered in Europe's Oil & Gas 'Capital' Aberdeen & has bases throughout the UK, in Holland & Azerbaijan, with an established Global distribution network supporting customer projects on a worldwide basis.
IHC Engineering Business Limited

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IHC Engineering Business Ltd (EB) designs, builds and supplies, elegant engineering solutions for the offshore oil and gas, submarine telecom, defence and renewables industries.

As part of the IHC group of companies, EB and IHC can provide turnkey vessels with fully integrated equipment packages.

Core areas of EB’s expertise include pipe-lay equipment, subsea trenching machines, specialist marine handling systems and control and monitoring systems.

With a dedicated team of over 160 people and workshop facilities with quayside access, EB has earned a global reputation for delivering complex projects on specification, on budget and in time.

IHC Sea Steel Ltd

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IHC Sea Steel has an extensive track record in developing innovative sub-sea pile driving techniques.

IHC Sea Steel’s patented \( \text{FAST FRAME} \) is a pioneering sub-sea piling system developed to substantially reduce offshore installation times.

Using our frame, piles are driven to final penetration in a single operation, without the need for hydraulic or electrical power umbilicals to the surface. The frame ensures verticality and accurate orientation of the piles being driven.

The \( \text{FAST FRAME} \) can be used for driving mooring, rises and initiation piles ranging from 20” to 96” in diameter, in water depths of up to 1000m.

IHC Sea Steel also design and supply Pile Upending Tools for handling and deploying piles. Currently, we have a range of tool sizes from 24” to 84” prepared and ready to hire. Standard tools can be modified to suit a variety of pile wall sizes and specialist tools can be manufactured if required.

Infield Systems Limited

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Infield is an independent energy research and analysis organisation that is dedicated to the provision of accurate and up-to-date data, market sector reports, mapping, analysis and forecasts to the offshore oil and gas and associated marine industries.

Infield services clients in over 40 countries from a wide range of organisations including E\&P companies, contractors, manufacturers, government agencies and the financial community. Infield is widely acknowledged as the definitive independent information resource and has been involved in many US$bn of merger, acquisition and transaction market due diligence.

Infield Systems has developed a variety of business tools, products and services to help companies and executives make business decisions:

- Offshore Energy Database
- OFFPEX™ Market Modelling & Forecasting System
- Specialist Vessels Database
- Global Sector & Regional Market Reports
- Vessels Activity Log
- Contracts Database
- Match & Track©
- Supply & Demand Models
- Cost Indices & Cost Tracking Models
- Market Due diligence

Inspectahire Instrument Company Ltd

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Inspectahire Ltd is the UK’s leading supplier of progressive visual inspection solutions for the following industries:

- Oil & Gas/offshore
- Civil Engineering
- Transportation
- Utilities
- Aerospace
- General Engineering
- Construction Engineering

Inspectahire Instrument Company Ltd continued over
Inspectahire is committed to being progressive in the application of new technology and the development of innovative processes and services to provide a market leading inspection and engineering service, comprising of:

- On site surveys
- Repair and maintenance of inspection equipment
- NDT equipment and inspection
- Site monitoring
- Bespoke customer training
- Camera mounted ROV’s
- Repair and maintenance

The principal activities of the company are the provision of Inspection Services, Equipment Hire and Inspection Solutions Engineering including bespoke engineering solutions.

Inspectahire’s broad range of abilities and applications has meant that it has been able to concentrate on the provision of harsh environment inspection services as niche ability. We have the broadest range of Explosion proof equipment – fibre-optic instruments, camera, lighting available for inspection work, be it into process vessels, pipelines or storage tanks.

In house abilities mean that we can create unique inspection solutions permitting the insertion of equipment into hazardous locations mounted on intrinsically safe pan and tilt mounts or explosion proof tractors.

**INTECSEA (UK) Ltd**

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INTECSEA has over 850 professional staff and provides engineering and construction management services through eight worldwide offices to the international oil and gas industry. INTECSEA’s expertise includes Arctic and offshore pipelines, marine production risers, subsea systems, flow assurance / operability and floating systems for offshore field developments. The company’s services range from technical and economic feasibility studies, through FEED and detail engineering, procurement and construction management to commissioning and operations support. INTECSEA has a specialty in pioneering achievements; including the world’s deepest subsea production, longest tieback, deepest pipelines and risers, involvement in numerous TLP / Spar projects and the largest FPSO. INTECSEA is a WorleyParsons Group company.

Intoco offer the highest specification DUPLEX & SUPER-DUPLEX materials “off-the-shelf” complete with LRS witnessed 3.2 certification. In most cases, our stock is manufactured by Norsok M650 approved Mills. Intoco also have BS EN ISO 9001:2000 quality approvals, and operate a very strict quality regime. We can distribute all our materials worldwide and offer an extremely fast distribution service.

**Intoco – Special Steels & Alloys**

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In the demanding world of subsea, marine & offshore engineering and applications, the need for high-performance steels & alloys goes without saying.

But paramount to the end-user of these materials in whatever form they are used, is the absolute necessity to trace the raw materials back to source and to have highly specified materials fully and correctly certified.

**J + S Ltd**

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The Company’s Offshore energy activities offer products, engineering solutions and production support in areas including: subsea low and medium voltage power distribution and connections, subsea asset management, In service support, technology insertion, umbilical diagnostic and repair, production cable jointing, and rapid-response offshore support.
Our expertise in power, mechanical, electronic, and software design, together with our established offshore support capability, places us in a unique position to offer a complete engineering service from front-end design through to offshore installation and acceptance.

We provide offshore support services including fault diagnostics, repair and replacement of umbilical connections and terminations. All offshore support staff technicians are trained in the accepted techniques of electrical cable jointing, working with and behalf of the major cable OEMs and Oil companies.

We operate Project Management and support contracts for major Oil Companies covering subsea and control systems engineering support, materials management, storage and maintenance.

We operate a 24/7 service coverage for all products and systems operating within the client’s asset base, covering engineering back-up, breakdowns, repairs, replacements, installation and testing.

KD Marine Limited

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KD Marine is a highly focused company providing unique solutions to difficult to access subsea engineering tasks. We specialise in minimum foot print equipment operated by our multi-skilled teams thus reducing impact of production operations yet maintaining a high quality and cost effective result. We can operate as a single supplier or part of a group as best suits the project needs.

L&N (Scotland) Ltd.

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L&N (Scotland) Ltd. are an independent engineering company located in Aberdeen.

Ideally located close to Aberdeen airport we offer a comprehensive range of products & services including:

- Valve & actuator supply services.
- Weld cladding
- Fabrication services
- Subsea control systems services
- Site support services

In addition to the products and services we provide at our headquarters in Aberdeen we also are experienced in exporting our resources, equipment and manpower to various locations across the world.

MCS

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At MCS, we provide Advanced Subsea Engineering, delivering leading edge technical solutions for the most challenging subsea environments.

With 25 years experience, we’ve a reputation for successfully integrating subsea engineering with industry-leading engineering analysis software in the following areas:

- Riser & Mooring
- Subsea & Pipeline
- Subsea Integrity
- Delivery Management
- Drilling & Intervention

We combine our engineering know-how and proven technical excellence to deliver integrated solutions – with independence and objectivity. We evaluate, specify, design and manage the delivery of riser and subsea systems, while integrating subsea design with flow assurance and operational support, to deliver complete solutions.

We bring together a strong analytical capability with solid design experience, combining our advanced engineering skills with expertise in subsea delivery management and life of field integrity services to add value to our clients.

Our in-house developed software is designed to ensure that our industry is able to recover oil in ever deeper water, under increasingly harsh conditions and using ever-longer subsea tie-backs.

Today MCS, a part of major energy service company Wood Group, is a truly global company with operations across four continents and an impressive record of delivering leading-edge technical solutions in the most challenging subsea environments.
DIRECTORY OF UK SUBSEA COMPANIES

National Hyperbaric Centre

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A dynamic, hostile-environment business

The National Hyperbaric Centre Ltd. is a fast growing, independent company providing services and expertise to the Subsea industry and specialised pressure-related industries.

We offer testing, trials, training, emergency support, equipment development, auditing and consultancy services to customers in Offshore, Inshore, Defence, Police and Health Services – even in the aviation industry as that is just a negative form of pressure.

Our associations with learned bodies and Universities enables us to bring together a wealth of facilities and talent to solve some of the problems dealing in the most difficult environment on the planet – subsea is definitely more challenging than being in space.

The NHC has been involved in the Diving Industry for many years through the provision of training, testing, hyperbaric and decompression studies. Comprehension of extreme environments enables us to offer advice and services to a broader market. We therefore work in other industry, medical and military areas in which we can offer use of our considerable expertise in hostile areas.

We have assembled a team of very experienced people with backgrounds from working in pressurised environments. Their experience in a variety of subsea activities over many years is unique, even in a world context.

Nautronix plc

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As ‘Global Leaders in through water communication and positioning technology for the offshore industry’ Nautronix services the needs of the oil and gas industry for acoustic positioning and communication.

Nautronix is headquartered in Aberdeen, Scotland with a sales office in Houston, Texas and support office in London the company currently employ over 75 people.

Nautronix products utilise their well proven leading-edge technology, ADSC (Acoustic Digital Spread Spectrum). Developed by Nautronix over ten years ago the company has invested over £12 million in the R&D of ADSC and annually commit further funding to develop applications for the offshore market.

Nautronix innovative system NASNet® (Nautronix Acoustic Subsea Network) is an underwater GPS system which helps subsea project teams to retrieve precise navigational data in a more efficient and timely manner. This ‘game changing technology’ offers significant operational and commercial benefits to field development.

The NASCoM product range provides the opportunity to have high integrity acoustic wireless communication links in place of umbilicals for the control and monitoring of subsea equipment bringing substantial advantages in deepwater environments.

Finally Nautronix offer a range of high quality and high integrity acoustic vessel systems which due to their have constantly been proven ‘best in class’.

For more information visit www.nautronix.com

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NCS Survey is one the fastest growing survey companies in the market. Specialising in topside and subsea positioning, measurement and mapping sector of Offshore Oil & Gas Operations. The company is involved in projects from start of exploration drilling to field decommissioning. NCS Survey is also active in Telecom Cable and Offshore Windfarm Markets.

The company has just successfully completed its 250th contract and has worked in 27 countries from Russia to Brazil and from New Zealand to USA.

With partner companies in Norway and USA, NCS Survey has a global capability.

NCS Survey puts you EXACTLY where you want to be.
Neptune Deeptech

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Provide in-depth experience from design through manufacture and field installation of equipment and systems for offshore oil and gas production systems, offshore engineering and renewable energy systems.

Our technology is based on the industry standard DVD format of MPEG2, this ensures that our video files can be played on almost any PC and have built in longevity.

Having sold over 300 units of our two most popular models, the DVR Inspector and the 73fifty, NETmc Marine DVRs are swiftly becoming the recorders of choice for a wide range of clients.

Our customer base includes oil companies, major ROV and diving contractors and a host of smaller underwater inspection companies. Our DVR Inspector is now the de facto recorder used on the majority of structural inspections using the Coabis software package.

Our diverse range of ruggedised DVRs has enabled NETmc Marine to sell outside the underwater arena where our clients include energy giants, nuclear plants and test and measurement facilities.

NETmc Marine’s range of products also includes video overlay equipment, integrated diver video systems and a range of storage solutions to fit all types of projects.

NETmc Marine Ltd

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www.netmcmarine.co.uk

NETmc Marine is the world’s leading supplier of digital video recorders (DVR) to the ROV, diving and structural inspection market. NETmc Marine DVRs are innovative, and consistently deliver hassle free high quality video recording from Standard Definition or High Definition video sources.

National Oceanography Centre, Southampton

European Way
Southampton
SO14 3ZH
Tel: +44 (0)2380 596666
www.noc.soton.ac.uk

The National Oceanography Centre, Southampton, is one of the world’s top marine research and education institutes. A collaboration between the Natural Environment Research Council (NERC) and the University of Southampton, NOCS is home to the Royal Research Ships James Cook and Discovery, and the location for the National Marine Equipment Pool. NOCS houses the National Oceanographic Library, the British Ocean Sediment Core Research Facility (BOSCORF) and has world-leading expertise in autonomous underwater vehicle technology. Our deep ocean research equipment includes Autosub 3 and Autosub 6000 AUVs, the Isis 6500m-rated ROV, and a variety of seafloor survey systems. Coastal research can be accommodated on our inshore research vessel Callista. We train students full and part-time to Masters and Doctorate level, and can provide tailored training in operational oceanography, marine environmental assessment and other oceanographic disciplines. Our specialist workshops are equipped to maintain and modify deep ocean equipment, and include a pressure testing facility.

Nexen Petroleum U.K.Limited

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www.nexeninc.com

Nexen is a Canadian-based, global energy company growing value responsibly. We are strategically positioned in some of the world’s most exciting regions: the North Sea, deepwater Gulf of Mexico, Middle East, offshore West Africa and the Canadian Athabasca oil sands.
Directory of UK Subsea Companies

National Physical Laboratory
Hampton Road, Teddington
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Tel: +44 (0)771 819 4368
Email: Will.medd@npl.co.uk
www.npl.co.uk

NPL is the UK's national measurement laboratory. We are a world-leading centre for independent and impartial measurement, analysis, characterisation and modelling, employing 600 scientists and engineers. Services and support to the Subsea market are diverse, including extensive ROV and hydrophone open water and hyperbaric test facilities. World leading corrosion, pipeline insulation and H2S measurement laboratories offering a wide variety of services and bespoke R&D. We aim to become the R&D outsource partner of choice in our areas of expertise to both service companies and operators in the Subsea market.

Oceanlab, University of Aberdeen
Oceanlab
Main Street, Newburgh
AB41 6AA
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Fax: +44 (0)1224 274402
Email: d.sproule@abdn.ac.uk
www.oceanlab.abdn.ac.uk

Test Facilities:
Oceanlab has a large hanger, with 2.5T overhead X/Y crane and a Comprehensive testing suit including:- 1800mm x 750mm, 700 bar hydrostatic pressure vessel Software driven vibration table, Software driven environmental chambers, Indoor test tanks (including seawater).

Product and Electronics Design:
Oceanlab’s Business Unit now has a dedicated electronics design engineer to address commercial projects.

Landers to 12000m rating, housings, battery packs, stand alone sub sea power units, and long term biological sub sea data collection platforms are available commercially to client’s requirements.

OIL Engineering Ltd
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www.oil-engineering.com

Established in 1976, primarily to serve fabrication requirements of the North Sea Oil and Gas Industry, OIL Engineering is a leader in its field and has developed a reputation for the cost effective building of technically complex and/or large specialist fabrications to high quality standards.

OIL Engineering is part of the Sovereign Oilfield Group of companies, a group offering a broad range of oilfield services covering fabrication and drilling services.

Senior management have the autonomy to implement change to meet the fast changing needs of today’s competitive marketplace.

We are committed to a programme of structured expansion in the range of services we provide, offering greater choice to our key customers in our core market.

The company has the facilities and equipment to carry out the full range of structural and pipework fabrication with procedures in place covering all grades of carbon steel, stainless steels, duplex, super-duplex, nickel and copper-nickel alloys.

OIL Engineering’s customer base includes key oil and gas exploration and production companies, core offshore integrated service providers and drilling companies. The subsea construction and IRM companies comprise a significant part of our customer profile.

The company’s quality management system conforms to BS EN ISO 9001:2000 and has been continuously certified by BSI since 1991.

The company has an integrated HSE&E management system. Health and safety is based upon Health and Safety Executive Guidelines HSG(65) 65 and British Safety Council guidelines. Environmental management is based upon ISO 14001 requirements.

Optical Metrology Services Ltd
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Email: info@optical-metrology-services.com
www.optical-metrology-services.com

When every fraction of a millimetre makes a difference, Optical Metrology Services (OMS) are the preferred choice. OMS is a unique provider of premium dimensional measurement services delivering highly accurate and refined results, making it quicker and less costly to complete major projects within the oil and gas industry. OMS require fewer people, whilst reducing time with less resource to achieve considerably superior results over traditional measurement methods.

OMS have a wide range of capabilities with the main focus on solving problems when welding pipes prior to installation.

Products
OMS manufactures a variety of tools to measure just about any critical feature to do with pipes:
- Internal HiLo,
- Bevel Geometry,
- Pipe Straightness,
- Ovality, Size, Wall thickness, ID and OD.
PDI Ltd, Project Development International

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www.pdi-ltd.com

Project Development International (PDI) is a dynamic, experienced and completely independent subsea engineering company offering development solutions to the oil and gas industry from discovery to production.

Offices in Aberdeen, Cairo and London

We provide the highest quality project management and specialised subsea engineering support services. In our 6th year of operations we have included risers installation analysis and quality services to our growing portfolio of services.

Pegasus International (UK) Ltd

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www.pegasus-international.com

Pegasus International is a multi-discipline engineering Oil & Gas engineering design and consultancy company with operational bases in the United States and United Kingdom.

There are five core business areas servicing the Oil & Gas industry: Offshore; Subsea; Onshore, Project Services and Asset Integrity Management.

Pegasus International specialises in Conceptual Studies, FEED, Detail Design, Asset Integrity, Project Management of pipeline systems and tie-backs to existing platforms & infrastructures, including Procurement and Construction Management of subsea developments.

Projects have been completed in more than 50 countries. Having a highly qualified team of professionals with worldwide experience enables Pegasus to provide practical solutions to complex problems during all phases of pipeline, structural and facilities projects.

Our track record includes work undertaken for Operators, Installation Contractors, and Suppliers.

Proserv Offshore

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www.proserv-offshore.com

Proserv Offshore

With over 30 years experience in the international oil and gas market, Proserv Offshore is a global leader in subsea applications, providing flexible and reactive engineering solutions from the installation and maintenance of the structure through to decommissioning at the end of field life. The business focuses on four main areas of expertise:

Decommissioning Contractors & Engineers
- Complete platform removal, pipeline and well decommissioning
- Decommissioning project management
- Consulting services

Abandonment Services
- Well plugging and abandonment
- Subsea well abandonment
- Conductor cutting and removal

Subsea & Marine Technology
- Cold cutting systems including water abrasive and diamond wire/mechanical technologies
- Seabed dredging systems
- High pressure coating and cleaning removal systems
- Friction stud welding systems for anode and grating attachment

High & Ultra High Pressure Pump Services
- High pressure and ultra high pressure pumps for offshore and onshore use
- High flow flushing and filtration units
- Hot water washers for offshore use
Prospect

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Part of the Hallin Group, Prospect is a global engineering partner providing design and analysis solutions to the subsea oil and gas industry.

Our offices, strategically located in Aberdeen, Derby, Houston and Stavanger, enable us to deliver responsive engineering solutions to clients worldwide.

We integrate our global network of people and technology into your project team, whenever you need us, and add value by extending your engineering capability.

Our team of engineers, recognised as world experts in the field of computer-aided engineering, work within a dynamic project-focused environment where the emphasis is on quality & client satisfaction.

We have the knowledge, experience and tools to provide your business with commercially viable and technically excellent engineering answers.

Roxar Flow Measurement AS

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www.roxar.com

As a market leader in the growing field of real-time reservoir production optimisation and flow assurance - Roxar creates value for its customers with innovative and professionally delivered solutions. The use of Roxar technology increases oil and gas recovery, accelerates production and lowers capital and operating costs.

Headquartered in Stavanger, Norway, Roxar is a leading international provider of products and associated services for reservoir management and production optimisation. Roxar understands reservoir description and flow dynamics and is in a unique position to act as a “one-stop supplier” to serve our customers in all their metering and monitoring needs. Whether it is topside, subsea or downhole - Roxar’s products meet the challenges of maximum reservoir performance. Our knowledge, products and services generate continuous information of value to oil and gas companies challenged with maximising returns from their reservoir assets.

Roxar offers a full range of services related to installation and operation of subsea meters, such as full load calculations, thermal analysis and PVT analysis.

Roxar installed the first subsea meter in 1996, and this meter is still in operation today. The most important deliverables from our subsea meters are reliability, measurement quality and maximising uptime.

CASE STUDY

Roxar’s subsea Wet gas meter

The Independence Hub Development, which came online in 2007, is an example of this growing focus on deepwater and offshore gas fields and subsea tiebacks.

Located 185 miles southeast of New Orleans, the Independence Hub facilitates the development of multiple ultra-deepwater natural gas discoveries. Located in Mississippi Canyon Block 920, it processes production from ten natural gas fields.

The Independence Hub development comes with a number of challenges from long tiebacks to excessive depths where producing high gas fraction wells requires the very best in flow assurance monitoring of individual fields and wells.

Wet gas meters are becoming ever more advanced with the use of advanced microwave-based dielectric measurements and accurate gas and condensate flow rates based on standard delta pressure devices.

Roxar’s subsea Wet gas meter, which has a typical length of less than one meter, detects the resonant frequency in a microwave resonance cavity with the resonant frequency depending on the dielectric properties of the fluid mixture present in the cavity.

The meter is designed to be robust, and is qualified to operate at 10,000 feet and within a process temperature range of -40 to 150 deg C, a process pressure range of 0 to 690 bar and maximum line pressure of 10,000 psi.

The result is that at the Independence Hub development, the wet gas meters are able to integrate different well streams and accurately detect and measure real-time hydrocarbon flow rates and water production.

Roxar’s subsea Wet gas meter
Rubberatkins Ltd

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www.rubberatkins.com

Rubberatkins is a world class, world wide company who provides technical, design and manufacturing services to solve customers needs by applying in house expertise in rubber.

Founded 1988, based in Aberdeen & Houston we provide technical expertise in the design and manufacture of rubber mouldings incl. rubber to metal bondings for the oil/gas and other markets.

Saab Seaeye Ltd

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www.seaeye.com

Saab Seaeye are the world’s leading supplier of electric ROV’s and as such offer a range of electric ROV’s for most subsea applications. From the smallest vehicle in our range, the Falcon to the new Jaguar work class ROV we are able to supply an ROV to carry out most tasks. With over 400 systems built and over 20 years in the industry we have a wealth of experience in supplying systems to meet customer’s demands. Our customers range from Oil and Gas to Defence, Scientific and Super Yachts. We are renown for our innovation and solutions to our client’s requirements.

Schlumberger Subsea Surveillance

Schlumberger Subsea Surveillance

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Email: surveillance@slb.com
www.slb.com/surveillance

Schlumberger Subsea Surveillance provide measurement and communication systems to support structural integrity, flow assurance and production optimisation of subsea systems as part of the urbanisation of subsea infrastructure and information technology.

Applications include flowline structural measurement, axial strain, buckle shape and production related pressure, temperature and blockage conditions due to hydrates, waxes, asphaltines or scale. Riser monitoring systems measure global shape and VIV fatigue life, and hang-off bending.

Systems can be designed for integration and deployment with new assets, or in cases where monitoring of existing deployed infrastructure is required, a range of retrofittable diver or ROV deployable systems are available.

Schlumberger Subsea Surveillance has an extensive track record of operational systems; answer products provide real-time information across client platforms and data to desk solutions support onshore and remote decision making teams.

Self Energising Coupling Company (SECC)

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Fax: +44 (0)1606 338 746
Email: info@se-coupling.co.uk
www.se-coupling.com

Subsea Pressure Balanced Safety Breakaway Couplings & Gas Lift Connectors

Specialist Information

■ SECC are designers & manufacturers of Subsea Intervention, Subsea Pipeline and Gas Lift Couplings/Connectors. Bore Size range: ¼” to 10” NB
■ Maximum working pressure 15,000 psi (1,035 bar)
■ Maximum working depth of seawater 10,000 feet (3,000 meters)
■ 100 per cent dry break on coupling separation
■ Couplings/Connectors can be re-made whilst both coupling halves are under full line pressure
■ Couplings/Connectors are pressure balanced and have no internal separation forces acting on the coupling when pressurised
■ Coupling applications: High Pressure Subsea Intervention, Subsea Gas Lift Connectors and Fluid & Gas Jumper Connectors
SeeByte was founded in 2001 in Edinburgh, Scotland. CEO David Lane had the vision to radically improve underwater operations by combining and using streams of sensor-derived data from remotely operated assets within a single integrated picture. Turning such sensor data into actionable information improves situational awareness, and enhances the decision making and control performances of people and machines in multiple applications across some of the world’s most extreme locations.

In the Offshore Oil and Gas market SeeTrack is making Unmanned Underwater Vehicles smart enough to automate inspection, repair and maintenance operations on subsea infrastructure such as risers, pipelines, manifolds and floating production systems. It reduces the need for expensive ship vessels and experienced operators, therefore reducing cost.

In the Defence market, SeeTrack is being used by Navies around the world as the de facto standard smart software making small Autonomous Underwater Vehicles, divers and marine mammals sufficiently capable that minesweeping ships can be decommissioned in favour of a cheaper more effective organic capability located on other fleet assets.

Shell UK Ltd

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With approximately 119,000 employees in more than 145 countries and territories around the world, the companies that comprise the Royal Dutch/Shell Group are engaged in Exploration and Production, Gas & Power, Oil Products, Chemicals, and Other industry segments including Renewables, Shell Consumer and Shell Hydrogen.

Our Exploration and Production business searches for and recovers oil and gas around the world and is active in 34 countries. The majority of these activities are carried out in ventures with external partners.

Sonardyne International Ltd

Sonardyne International Ltd is a world-wide market leader in the design and manufacture of systems for subsea navigation, acoustic positioning, through-water data communication, inertial navigation and maritime security.

Applications for Sonardyne’s technology range from deepwater construction survey, position referencing for DP vessels, ROV tracking and wellhead data logging through to high speed data telemetry and remote valve control and actuation. In the World’s most challenging subsea environments, the company’s solutions deliver accuracy and reliability giving clients the confidence to operate successfully at any water depth.

An established network of regional offices in Aberdeen, Houston, Singapore, Brazil and Norway offer project consultancy, equipment servicing, field engineering and operator training. This is backed by an emergency helpline that provides worldwide technical support 24hrs a day. Sonardyne is certified by DNV to ISO 9001:2000.
Saipem UK Ltd, Sonsub Division

**Speciality Welds Ltd**

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Fax: +44 (0)1274 855975
Email: sales@specialwelds.com
www.specialwelds.com

Sonsub’s global presence is supported by our in-house engineering facilities, regional offices and extensive asset portfolios strategically located throughout the world. This includes a core fleet of Subsea Construction, Dive Support, Survey and multipurpose ROV Support Vessels, plus a sophisticated range of deepwater ROVs, tools and intervention systems.

**CASE STUDY**

**Project**
Ettrick Subsea Field Development

**Date**
2007–2008

**Client**
Nexen Petroleum UK Ltd

**Water depth**
115m

Sonsub has recently completed operations on the Ettrick subsea field development, operated by Nexen Petroleum UK Limited in the North Sea, resulting in a successful conclusion to the substantial two year long project.

The development includes three subsea production wells and one water injector tied back to an FPSO, with Sonsub’s scope of work comprising the installation and hook-up of the subsea pipelines, umbilicals, risers, structures and FPSO retractable buoy mooring systems.

All operations were carried out in a safe and efficient manner.

Giorgio Martelli (General Manager) said: “This is the largest project completed by Sonsub in recent years, and it really highlights Sonsub’s maturity as a fully fledged subsea construction contractor.”

**Underwater welding consultant/technologist.**

**WeldCraft-Pro ‘EMTA’ accredited underwater welding course.**

**Welder training in MMA, MIG/MAG, TIG and oxy-fuel for steel, aluminium, stainless and other weldable alloys.**

**Welding procedure approvals and welder qualification testing to BSEN, ISO, ASME, AWS, CAA, BS, etc.**

**Official welding surveyor for Zurich Risk Services.**

**Manufacture of underwater welding products/services.**

Including:

- Barracuda Gold – C/Mn (mild-steel) electrodes.
- Hammerhead – Cr-Ni-Mo (stainless) electrodes and the Hammerhead no skill/no vis wet-spot welding process.
- Piranha – 400 amp welding/cutting safety isolation switches.
- Swordfish – arc cutting electrodes.
- Scorpion blue – exothermic cutting lances.
- Stinger – underwater welding electrode holder.
- Underwater auto-darkening welding filter.
- Book – A welder’s Mate – underwater wet welding.
- Welding machines – welding inverters (Mahe), Superstar welding transformer-rectifiers (Lastek), diesel welding generators (Arc-Gen).
SPT GROUP LTD

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SPT Group is a leader in dynamic modelling for the oil and gas industry providing a combination of software and consulting services within multiphase flow and reservoir engineering.

SPT Group develops and markets well established products to the petroleum industry, including OLGA®, edpm®, Drillbench® and MEPO®, affording customers the opportunity to maximise operations and reservoir performance while minimising risk and downtime.

OLGA® is the market leading multiphase flow simulator for modelling transient behaviour in wells, pipelines and receiving facilities. Efficient production involves the multiphase transport of oil, gas and water from the reservoir, through wells and pipelines, to the processing installations. OLGA models the flow of production using complex simulations which predict the behaviour of the fluid flow.

eField Dynamic Production Management (edpm) is a fully dynamic online production and integrity management system, providing operational guidance using information from parts of the production system that instrumentation cannot reach.

Drillbench is an application suite containing drilling and well technology applications for dynamic simulation, planning, design, and follow-up of most drilling operations.

MEPO® is a revolutionising software solution for reservoir optimisation, production planning, history matching and uncertainty assessment.

Sub-Atlantic Ltd

Aberdeen
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SUB-ATLANTIC is the World leading manufacturer of Comanche, Mohican, Super Mohawk, Mohawk and Navajo Electric ROV Systems and subCAN™ high speed communications data network system.

We are also the leading propulsion supplier to work-class ROV builders, providing hydraulic thrusters, hydraulic power units (HPU), valve packs, compensators and pan and tilt units. Our products operate in the World’s harshest of environments and are therefore designed and built with the highest levels of technology, expertise and innovation.

From our Headquarters in Aberdeen, Scotland, we are in a prime location to support our North Sea customers and support our international customers through our well appointed Houston office and worldwide network of distributors and services centres.

Subsea Integrity Group (SIG)

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The Subsea Integrity Group (SIG) is committed to maintaining the integrity of Subsea Assets to the Energy Industry worldwide. It achieves this by providing innovative inspection and corrosion monitoring products that can be deployed on risers or pipelines, from the pig trap to the wellhead. With a range of intrusive and non-intrusive ultrasonic guided wave technology systems SIG is able to clearly define and manage pipeline risk.

Technip

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Technip – the Global Group
Technip is a leading engineering, technologies and project management company for the oil and gas industry. Its business, split into three divisions; onshore, offshore and subsea, provides a range of expertise, assets and products to support the development of the world’s energy resources.

Technip – Subsea
Technip is a market leader in the field of subsea construction installation and pipelay and continues to develop its business to meet the needs of the growing and dynamic subsea sector.

Technip’s global engineering centres undertake projects in ultra deep, deep and shallow waters and every new project can present unique and complex challenges. With versatile assets, extensive capabilities and a range of proven products and technologies Technip is able consistently offer innovative, sustainable and safe solutions making it the ideal subsea development partner.
Tracerco

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Tracerco, part of the Johnson Matthey group, is the leading provider of precision diagnostics services and specialist measurement instrumentation with a wealth of 50 years experience. It offers a unique range of techniques that allow it to ‘see through’ pipes and processes to the parts that other technologies cannot. Ultimately providing clients ‘insight onsite’.

As part of its precision diagnostics portfolio, the company’s cutting edge technology is used to assess the integrity of assets. Its vast subsea solutions offering range from cradle to grave services such as flow assurance, pig location and detection, asset integrity; flooded member inspection to unique and novel level measurements.

Tracerco’s range of low maintenance instruments give clients a real-time, in situ visualisation of their asset in often difficult locations and situations. The company has played a central role in several high profile subsea projects including the Tordis Subsea Separation, Boosting and Injection (SSBI) system where it modified the highly successful topside TRACERCO Profiler™ unit to be able to cope with the unique pressures of the subsea environment. The unit is an integral part of the separating process. Tracerco provides expert information to ensure the right solution to a problem is used and no expensive mistakes are made.

CASE STUDY

Tracerco’s Technology Plays Central Role in Pioneering Tordis Project.

The Tordis Improved Oil Recovery (IOR) system, which was commissioned by StatoilHydro, is the world’s first full field subsea separation boosting and injection (SSBI) system. It is at the cutting edge of design and technology and owes much of its success to the strong working partnership between FMC Technologies and Tracerco.

The collaboration has resulted in an impressive subsea separation monitoring system that combines Tracerco’s separator measurement experience with FMC Technologies’ knowledge of subsea process design and project execution.

Six of Tracerco’s state-of-the-art separator level measurement instruments are central to the project and are being used in the separator and desander vessels.

The company has redesigned its successful topside TRACERCO Profiler unit to cope with the unique subsea environment. The Profiler works by giving a density profile of the cross section of the vessel and then gives a visual interpretation of the data, much in the same way an MRI scanner would provide a slice of a human body, essentially giving the operator “insight onsite”. The scan of the vessel provides a range of data that can be interpreted to identify the oil/water interface and any emulsion/foaming layers that may be forming.

By installing a full-field subsea separation facility, Statoil expects to improve the Tordis Field’s recovery factor from 49 per cent to 55 per cent. Along with other upgrades to the field, FMC’s separation system will allow Statoil to extract roughly 35 MMbbl extra from the Tordis Field.

Tordis SSBI delivered to StatoilHydro by FMC Technologies

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Tritech International Ltd started trading in 1990 with the aim of producing the finest, most innovative range of subsea products available. The award winning company specialises in the production of high performance acoustic sensors, video cameras and mechanical tooling equipment for professional underwater markets. As an innovator in the marketplace Tritech remains industry leader in the provision of sensors and tools for ROV and AUV markets.

Tritech is based in Westhill, Aberdeenshire, with its design and manufacturing base located in Ulverston, Cumbria. In 2006 Tritech became part of Halma p.l.c. which also acquired Sonar Research & Development (SRD) in 2007. SRD which specialises in multi-beam sonar is based in Beverley, E. Yorkshire and is now part of the Tritech Group.
TSMarine (Contracting) Ltd

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The TSMarine Group of Companies is a specialist marine and subsea operations provider, focussed on rigless subsea well intervention, decommissioning of subsea production facilities and subsea construction services. The company operates two vessels with a third vessel to be chartered in January 2009 and two further new-build vessels being delivered in 2009, which will be owned and operated by TSMarine. In the short time since commencing operations, the company has built up an impressive track record and currently offers a wide range of services including:

Well Intervention
- Slickline and e-line services
- Pumping
- Tractor operations

Decommissioning
- Plugging, cementing and wellhead severance of category 1 and 2 subsea wells
- XT recovery
- Subsea system isolation and cleaning
- Flowline and umbilical decommissioning
- Module recovery
- Seabed remediation

Subsea Field Development
- Flowline, umbilical and manifold installation
- Tie-ins
- FPSO hook-up
- Installation of trees-on-wire
- Riserless intervention
- Detailed subsea surveys

IRM
- Subsea inspection
- Riser repair
- Umbilical replacement

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UTEC Survey is an Offshore Contractor with a successful track record in the provision of services to the oil and gas markets and telecommunications industry. Now operational with bases in Houston, Aberdeen, Lowestoft, Accra, Dubai, Calgary, and Singapore, UTEC Survey provides innovative and proven Construction Support, Geotechnical, Industrial Measurement, Geohazard and Site Investigation, Environmental, and Positioning services to its clients.

UTEC Survey presently operates four vessels in the Pacific, Europe and West Africa, in addition to supporting third party contractor’s vessels with our highly experienced teams.

UTEC Survey’s foundation is to provide a professional “Best in Class” service for the offshore market. UTEC Survey is at the forefront of new survey related technology bringing a host of innovative and cost saving services to our respected client base. UTEC Survey employs highly skilled and motivated project managers, surveyors, geophysicists, data processors, geotechnical and geophysical engineers to ensure accurate and competent service delivery, endeavouring at all times to meet our clients’ safety, quality, technical and commercial objectives.

VerdErg Connectors Ltd.

Lansbury Estate Units 5 & 6
102 Lower Guildford Rd.
Knaphill, Surrey
GU21 2UB
Tel: +44 (0)1483 289 300
Fax: +44 (0)1483 289 301
Email: info@verderg.com
www.verderg.com

Supplying safe, reliable and environmentally friendly energy is the most relevant issue facing the world today. VerdErg Connectors Ltd. is combining 30 years of offshore oil & gas field development experience to revolutionise energy recovery from the oceans. VerdErg Connectors Ltd. is a supplier of specialist equipment and related design, engineering and project management services to the offshore energy industry.

Vetco Gray UK Ltd, a GE Oil & Gas business

Silverburn House, Claymore Drive
Bridge of Don
Aberdeen AB23 8GD
Tel: +44 (0)1224 356398
Email: debbie.carle@ge.com
www.geoilandgas.com/vetcogray

VetcoGray is a GE Oil & Gas business specialising in upstream drilling, completion and production technology for the onshore, offshore and subsea oil and gas industry. Its product offering includes specialty wellheads, trees,
valves, connectors, controls and related systems to meet the unique challenges of harsh environments with extreme pressure and temperatures. VetcoGray’s 5,500 professionals are part of the GE Oil & Gas team that has provided advanced technology products and services for production, LNG, pipelines, storage, refinery and petrochemicals for more than 100 years.

Visualsoft Ltd

Concorde House, Endeavour Drive Arnhall Business Park Westhill, Aberdeen AB32 6UF Tel: +44 (0)1224 766003 Fax: +44 (0)1224 279737 Email: sales@visualsoft.ltd.uk www.visualsoft.ltd.uk

VisualSoft is the world leader in offshore digital video inspection systems and has a proven track record in the offshore inspection survey market since 2001 with >350 systems in the field worldwide.


VisualDVR – Digital Video Recorder/‘Black-box’ capable of recording/playback of video from single/dual cameras including built-in video overlay unit. The DVR replaces the VCR for basic digital video recording onto hard-disk and/or DVD disks. VisualDVR can also record ROV sensor data for linking of video with other data sources for improved retrieval/reporting of video information.

VisualOverlay is a Windows application controlling one or more PCI cards to apply text and graphical overlay information for output as an analogue video signal. VisualOverlay can be integrated with VisualDVR to provide a ‘single box’ digital video and overlay system.

VisualEditPro fully automated survey track/cross-profile data processing and eventing software. These applications significantly reduce the time to process inspection survey data, reduce manpower/lower cost and provide enhanced QC over the final survey deliverable.

VisualGIS links digital video to ArcGIS

AutoChart automated charting system from Wish Software

- Digital video inspection system sales
- Digital video inspection system rentals
- Sale/rental of disk and tape storage systems
- Off shore support personnel
- Training services

EP-Weatherford

Viking Road Gapton Hall Industrial Estate Great Yarmouth NR31 ONU Tel: +44 (0)1493 415231 Email: andrew.williment@ep-weatherford.com www.ep-weatherford.com

VisualDVR can also record ROV sensor data for linking of video with other data sources for improved retrieval/reporting of video information.

Webtool-Subsea

Atlas St, Clayton Le Moors Accrington, Lancashire BB5 5LW Tel: +44 (0)1254 615100 Email: Sales@webtool-subsea.co.uk webtool-subsea.com

- Design + Manufacture of all types of ROV/Subsea/Intervention/ Decommissioning cutting tools.
- 22 to 340mm diameters.
- Over 25 years reliability + experience supplying solutions worldwide to subsea operators.
- Bespoke tools designed + manufactured.

Well Ops UK Ltd

Helix House Kirkton Drive Pitmedden Road Industrial Estate Dyce Aberdeen AB21 0BG Tel: +44 (0)1224 351 800 Email: snairn@helixesg.com www.helixesg.com

Well Ops are the industry leader in subsea well intervention and decommissioning; operating in the Gulf of Mexico, North Sea, and Asia-Pacific Region’s. The company’s success is based upon improving the economics of subsea well production enhancement, recovery, as well as subsea well abandonment and field decommissioning.

Well Ops provide a wide range of well operation and decommissioning services, with specialist vessels and innovative equipment. Well Ops asset’s include two purpose built drilling, completion and well services vessels, the Q4000 and MSV Seawell, with a third vessel – the Well Enhancer – due to enter service in 2009.

Well Ops has Regional offices and operations in Houston, USA, Aberdeen, UK and Perth, Australia.
Wellstream International Limited

Wellstream House, Wincomblee Road
Walker Riverside, Newcastle upon Tyne
NE6 3PF
Tel: +44 (0)191 295 9000
Email: sales@wellstream.com
www.wellstream.com

Wellstream is a leading designer and manufacturer of spoolable flexible pipeline solutions in the oil and gas industry.

Designed to have the strength and durability associated with rigid steel pipes, flexible systems are often the only solution for risers in dynamic offshore environments. Design is driven by customer specific field requirements to form a structure that addresses the specific environmental requirements and characteristics of the transported fluids. Offshore, the company’s portfolio of unbonded flexible pipe products includes:

- Dynamic Risers
- Infield & Export Flowlines
- Fluid transfer Lines
- Topside & Subsea Jumpers
- Drilling Service Lines

Onshore, Wellstream’s FlexSteel™ onshore flowline product has revolutionised the market by combining the manufacturing and installation advantages of flexible pipe with the reliability of steel pipe and corrosion resistance of polymer liners.

Through a multi-million dollar commitment to research and development, Wellstream continues to expand the boundaries of flexible pipe technology. In-house metallurgical, polymer and offshore engineering experts, supported by strategic external relationships manage a rigorous technical programme, driven by client/project specific requirements and a longer term strategy to expand the company’s capability ahead of new markets. Wellstream’s vision is to provide “Innovative pipe solutions for tomorrow’s energy production”.
MATRIX OF SUBSEA KEY SERVICES
### Key Services

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<th>3Sun Ltd</th>
<th>AGR Subsea Ltd</th>
<th>*AKE Ltd</th>
<th>*Aker Solutions</th>
<th>Atkins Boreas</th>
<th>Atkins Ltd</th>
<th>Balmore Offshore Engineering</th>
<th>Bibby Offshore Limited</th>
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<th>*Cutting Underwater Technologies Ltd</th>
<th>DES Operations Ltd</th>
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Key Services

- Acoustic Positioning, Control & monitoring Equipment and services
- Asset Integrity Management
- Bend stiffeners/restrictors
- Buoyancy/flotation
- Cables and protection equipment and services
- Coating systems
- Corrosion management, monitoring, control
- Cryogenic equipment and services
- Decommissioning
- Design and conceptual study services
- Diving/ROV/Submersible Services
- Drilling & Well Intervention
- Education & training
- Emergency Planning and Response
- Equipment rental services
- Fabrication & machining
- Failure & Forensic investigation
- Flow assurance equipment and services
- Geohazard and Site Investigation
- Geophysical / Geotechnical Services
- Hydraulic equipment & services
- Inspection, Repair and Maintenance
- Installation & commissioning
- Integrity Management & Monitoring
- Marine/Subsea handling & Mechanical Connection Systems
- Maritime security
- Measurement/metrology/NDT equipment and services
- Medical / Emergency Response Equipment and services
- Mooring/ buoy systems
- Naval architecture
- Navigation equipment and Services
- Pipeline rigid/flexible Design, Inspection & Testing services
- Pipelines Rigid / Flexible supply
- Positioning Services
- Project Management Services
- Quality, Health, Safety and Environment
- Remotely Operated Vehicles
- Ship Chartering
- Subsea Control & monitoring equipment and services
- Subsea handling Equipment and services
- Subsea Instrumentation and sensors
- Subsea Mechanical Connection Systems
- Subsea production systems
- Test facilities
- Thermal insulation
- Thrusters & propulsion systems
- Umbilical/riser equipment and services
- Underwater Cutting equipment and services
- Welding products, equipment and services
- Electrical connection/distribution equipment

* No information provided
## Key Services

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* No information provided
**Key Services**

- Acoustic Positioning, Control & monitoring Equipment and services
- Asset Integrity Management
- Bend stiffeners/restrictors
- Buoyancy/flotation
- Cables and protection equipment and services
- Coating systems
- Corrosion management, monitoring, control
- Cryogenic equipment and services
- Decommissioning
- Design and conceptual study services
- Diving/ROV/Submersible Services
- Drilling & Well Intervention
- Education & training
- Emergency Planning and Response
- Equipment rental services
- Fabrication & machining
- Failure & Forensic investigation
- Flow assurance equipment and services
- Geohazard and Site Investigation
- Geophysical / Geotechnical Services
- Hydraulic equipment & services
- Inspection, Repair and Maintenance
- Installation & commissioning
- Integrity Management & Monitoring
- Marine/Subsea handling & Mechanical Connection Systems
- Maritime security
- Measurement/metrology/NDT equipment and services
- Medical / Emergency Response Equipment and services
- Mooring/ buoy systems
- Naval architecture
- Navigation equipment and Services
- Pipeline rigid/flexible Design, Inspection & Testing services
- Pipelines Rigid / Flexible supply
- Positioning Services
- Project Management Services
- Quality, Health, Safety and Environment
- Remotely Operated Vehicles
- Ship Chartering
- Subsea Control & monitoring equipment and services
- Subsea handling Equipment and services
- Subsea Instrumentation and sensors
- Subsea Mechanical Connection Systems
- Subsea production systems
- Test facilities
- Thermal insulation
- Thrusters & propulsion systems
- Umbilical/riser equipment and services
- Underwater Cutting equipment and services
- Welding products, equipment and services
- Electrical connection/distribution equipment

* No information provided
## Key Services

A list of services offered by various subsea companies.

**Schlumberger Subsea Surveillance**
- Acoustic Positioning, Control & monitoring equipment and services
- Asset Integrity Management
- Bend stiffeners/restrictors
- Buoyancy/flotation
- Cables and protection equipment and services
- Coating systems
- Corrosion management, monitoring, control
- Cryogenic equipment and services
- Decommissioning
- Design and conceptual study services
- Diving/ROV/Submersible Services
- Drilling & Well Intervention
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- Emergency Planning and Response
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- Fabrication & machining
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- Test facilities
- Thermal insulation
- Thrusters & propulsion systems
- Umbilical/riser equipment and services
- Underwater Cutting equipment and services
- Welding products, equipment and services
- Electrical connection/distribution equipment

* No information provided
### Key Services

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<th>TS Marine Contracting Ltd</th>
<th>*UTEC Survey Ltd.</th>
<th>VerdEng Connectors Ltd</th>
<th>*Vecco Grey UK Ltd</th>
<th>Visualsoft Ltd</th>
<th>eP Weatherford</th>
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In the UK, companies, including many of the world’s major corporations, plug directly into the heart of global finance, global creative and professional services, global media and global talent. They enjoy access to world-class science and academia and link into a wide network of smaller enterprises, many of which are also world leaders in their fields.

A unique multicultural and entrepreneurial economy, the UK is at the hub of international business, bringing the world to a company’s door. In short, it is the gateway to the globe.

You too can be at the heart of this global crossroads. Start by talking to UK Trade & Investment.