

Directory of UK Decommissioning Technologies and Capabilities in the UK and Overseas



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BRITAIN & NORTHERN IRELAND

Foreword

I am delighted to introduce this Directory of UK nuclear decommissioning expertise.

The UK nuclear industry is one of the most established and advanced in the world. By virtue of being one of the earliest countries to develop nuclear, the UK has acquired a wealth of experience. Over 60,000 highly trained workers provide a wide variety of nuclear skills ranging from plant operations, specialist engineering disciplines and expert knowledge of regulatory requirements, through to project management, scientific and cutting edge research programmes, and first class safety and systems expertise.

The UK is an international leader in nuclear decommissioning, radioactive waste management and site remediation- with a long established framework of organisations and a deep supply chain to deliver the complex process of decommissioning. Some of the solutions and skills developed are unique and can be of benefit to nuclear markets worldwide.

The Nuclear Decommissioning Authority (NDA) owns 17 sites and facilities ranging from nuclear reactors, large fuel processing and reprocessing plants, to waste retrieval/processing plants, research facilities and radioactive waste disposal facilities. It has a £3bn programme of work to oversee the operation, decommissioning and remediation of these sites. At the heart of delivering the programme is the UK's mature and flexible supply chain which reaches across the whole process.

These clean-up programmes have provided UK companies with experience in dealing with all aspects of the safe and efficient clean-up of nuclear facilities. There are many areas that can be highlighted as success stories. Decommissioning and clean-up of the UK's first generation of Magnox power stations is well advanced. Additional programmes have seen the clean-out, decontamination, dismantling and demolition of higher hazard nuclear facilities at sites such as Dounreay, Harwell, Winfrith and Capenhurst. The UK Supply chain has also been developing innovative solutions in waste management and decommissioning at Sellafield, the largest nuclear site in Europe. This expertise in supply of products and services has been taken internationally by many of those featured in this directory to great success.

I am glad to see a wide representation of UK supply chain expertise represented in this directory. I hope it will be a useful publication and help identify areas where the UK can support your business or programme in the challenges posed by nuclear decommissioning.



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Civil Nuclear Team

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The Nuclear Industry Association (NIA) is the trade association and representative voice of Britain's civil nuclear industry.

It represents more than 260 companies including the operators and vendors of nuclear power stations, those engaged in decommissioning, waste management, nuclear liabilities management and all aspects of the nuclear fuel cycle, nuclear equipment suppliers, engineering and construction firms, nuclear research organisations, and legal, financial and consultancy companies.

The NIA's key objectives: to improve the commercial performance of the UK nuclear industry by assisting and supporting member companies to develop their businesses in the UK and overseas, to improve the understanding of nuclear energy and the climate of political and public opinion in which the industry works and develops.

The Nuclear Industry Association supports a balanced low-carbon energy future for the UK including renewables, clean coal and gas – with nuclear at its low-carbon centre.



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As home to the world's first civil nuclear power station, West Cumbria has developed skills and expertise over more than 50 years which aids Britain's nuclear new build and decommissioning agenda and also assists other countries across the world with their nuclear plans.

Britain's Energy Coast was established in 2009. Working closely with local businesses in the energy supply chain and beyond, and the academic sector we deliver a wide range of services including inward investment and commercial property.

We own and operate Westlakes Science & Technology Park, home to 70 diverse companies providing services to the nuclear and energy sectors.

We have experience of working successfully with partners at home and overseas.

We have developed strong relationships with the UK Government, in particular the Department of Energy & Climate Change and the Department for Business, Innovation & Skills. Both departments gave their full endorsement to the West Cumbria Economic Blueprint, expressing the national importance of our work and the work of those West Cumbrian businesses that will help to deliver the strategy



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We are responsible for managing the effective and efficient clean-up of the UK's nuclear legacy.

This includes the first generation of "Magnox" power stations, various research and fuel facilities, and our largest, most complex site: Sellafield. We are the body tasked with implementing government policy on higher activity radioactive waste, and the low-level waste strategy. We also provide advice on the decommissioning plans for current and planned nuclear power stations.

We take responsibility, on behalf of the Government and taxpayers, for overseeing the clean-up and decommissioning of 17 of the UK's civil public sector nuclear sites spread across the UK, which date back as far as the 1940s



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The East of England Energy Group (EEEGR) is the industry and skills association for energy producers and their Supply Chain in the East of England, representing over 300 members across the sector. EEEGR's mission is to be the source of new opportunities and knowledge to enable member companies to strategically grow their businesses.

We are a non-profit, business-led group, committed to the sustained development of the energy sector in the East of England, and the continued success of our members.



Company A-Z

A

AECOM
AMEC Foster Wheeler
Antech
Arup
ATKINS Global
Augean
Avon Protection

B

Britain's Energy Coast Cumbria Partner
Brokk

C

Cavendish Nuclear
Centronic Ltd
Createc
Croft Associates
CW Fletcher

D

Dalton Institute
DBD Limited
Delta Controls
Doosan Babcock

E

East of England Energy Group Partner
Eden Nuclear and Environment Limited

F

Flowserve
Forth Group
Frazer-Nash Consultancy Ltd

G

GAU Radiological Laboratories
Galson Sciences Ltd



H

Hargreaves
HR Wallingford
Hyde Group Nuclear

I

Industrial Technology Systems Ltd (ITS)

J

James Fisher Nuclear Ltd
JGC Engineering and Technical Services Ltd
Jordan Manufacturing

K

KDC Contractors Ltd

L

Logical Personnel Solutions Limited
Lucideon
L2

M

Matom Ltd
MCM International
Mirion Technologies (IST) Ltd
Mons Maintenance
Morson Projects
Mott MacDonald

N

National Nuclear Laboratory
National Skills Academy Nuclear
NIS Limited
Nuclear Industry Association (NIA) Partner
Nuclear Technologies (A division of TUV SUD (UK) Limited)
Nuclear Technology Education Consortium
Nuvia Group Nuclear



O

OC Robotics
Oxand
Oxford Technologies

P

PacTec
Pöyry Energy Ltd
Prospect Law Ltd
Provelio

R

Raddec International
Risktec Solutions Limited
Rodger Leask Ltd
Rolls Royce

S

SC Innovation
Servelec Controls
Shadow Robot Company Ltd
Structure Vision Ltd

T

Tata Steel Projects
Technology Centre
The Technology Partnership (TTP)
Toro Shelters
Turnell & Odell

W

Waldeck
Westinghouse
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From its acquired companies, AECOM has had a UK presence since 1924 and has been providing comprehensive nuclear design, nuclear SME consultancy and nuclear environmental services here for more than 35 years. For the last 7 years, we have been managing operations at the Nuclear Decommissioning Authority's (NDA's) sites, including Sellafield, the Low level Waste Repository and Dounreay. Today we have around 8,000 employees in the UK and almost 90,000 worldwide, with a presence in 150 countries. Total annual revenue is around £12 billion.

AECOM has the capabilities to support every stage of the project life cycle—from inception and design through construction, start-up and operation to decommissioning and closure. We have been managing the operations and clean-up of high hazard, complex nuclear sites for over 30 years, and this has included the decommissioning of 20 reactors.

With over 150 "site-years' " experience, our Management Services' Nuclear & Environment business is responsible for managing annual expenditures of over £3.4billion on projects in the UK and US. We provide programme management; planning, design and engineering; systems engineering and technical assistance; construction and construction management; operations and maintenance; environmental remediation; waste management and decommissioning, dismantling and closure services to a broad range of clients, including the NDA in the UK and the US Department of Energy, as well as privately owned utilities.



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Established: 1848, Revenue: £5.5 billion GBP, Number of Employees: 40,000

Amec Foster Wheeler designs, delivers and maintains strategic and complex assets for its customers across the global energy and related sectors.

Within our nuclear business, we stand out for our ability to bring world-leading expertise, technology and scientific capabilities, drawn from a global energy business, to customers' challenges.

With 3,300 nuclear specialists around the world, we are able to support our customers with local expertise. We have been delivering in the nuclear sector since the beginning and have played a critical role in major nuclear projects around the world.

Key services include: Programme scoping and development, project management, engineering & construction services, waste characterisation, front-end design and developing options, radiological and environmental consultancy, supply chain management, commissioning, decontamination technologies, decommissioning, environmental remediation and waste management services.



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ANTECH is a UK manufacturer of radiometric instruments. ANTECH, an established international nuclear instrument supplier since 1987, designs, develops, supplies, supports and maintains a wide range of non-destructive nuclear measurement technologies. ANTECH applications are designed for use in nuclear safeguards, nuclear waste assay, sentencing and environmental radiation detection. Specialising in the measurement of Special Nuclear Materials our range includes SGS, WR-SGS, LRGS, TGS, PNCC, Gamma Imaging, Calorimetry, Soil, TENORM Monitoring, Gamma and Neutron monitoring, plus Personnel and Environmental Monitoring. Our technologies are used to qualitatively quantify waste in various forms integrating latest technologies to provide a range of measuring instruments for assaying and sentencing cans, drums and boxes ranging from free release, VLLW, LLW through to high activity Intermediate Level Waste (ILW). Working with remote handling specialists and robotics systems preferred partners, ANTECH provides integrated solutions. Comprehensive on-site measurement services, assay data review and supporting validation takes care of measurement.



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Arup is the creative force at the heart of many of the world's most prominent projects in the built environment and across the industry. We offer a broad range of services that make a real difference to our clients and the communities in which we work. We are truly global, from 92 offices in 40 countries our 13,000 planners, designers, engineers and consultants deliver innovative projects across the world with creativity and passion. For over 30 years Arup has provided innovative bespoke solutions to the nuclear industry through our combined strengths in management, commercial and technical expertise. Our capability and application extends throughout the nuclear fuel cycle with experience in all aspects of nuclear energy, decommissioning and clean-up.

Arup provides a full range of services for nuclear decommissioning including full multidisciplinary design, technical, planning, environmental and management consultancy services, asset and land management, waste management and full programme and project management capability. We provide these services to programme delivery organisations, contractors, regulators and planning authorities. Our key strengths include waste and spent fuel store design and construction management, transport and storage package design and analysis as well as asset appraisal, organisation change and change management. We have proven skills and capabilities in safety, resilience, security consultancy and land remediation and are able to design and engineer for deep and near surface geological disposal.



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Atkins is one of the world's most respected design, engineering and project management consultancies. We have: 18,500 employees worldwide, Revenue: £1.76 billion (Full year ended 31 March 2015), Established in 1938.

We provide the following services to our clients across the globe:

Multidisciplinary Design, Engineering and Analysis – Mechanical, Process, Electrical, Control & Instrumentation, Civil, Architectural & Structural, Nuclear Safety, and Environmental.

Project and Programme Management across the full nuclear lifecycle.

We are currently working on decommissioning projects for the following clients: Sellafield Ltd; UK Nuclear Decommissioning Authority; Magnox; TEPCO; Duke Energy; and many more.



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Augean Radioactive Waste Services (RWS) is a business unit of Augean PLC, one of the UK's leading waste management businesses. RWS is an established leader in providing waste disposal services for Low Level Radioactive Wastes (LLRW) and Naturally Occurring Radioactive Material (NORM) in the UK. RWS provide a range of treatment and landfill processes to the Site Licence companies responsible for decommissioning the UK's redundant nuclear facilities.

Our East Northants Resource Management Facility is a modern landfill site constructed to high quality standards and is authorised to dispose of LLW.

Our Port Clarence site has authorisation for storage and treatment of NORM wastes and our high temperature incinerator in Sandwich provides the highest levels of secure destruction for combustible, radioactively contaminated waste.



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Avon Protection is a world leader in CBRN PPE and respiratory protection, providing complete solutions for air, land and sea based personnel in military, law enforcement, first responder, fire-fighting and industrial sectors worldwide.

Our portfolio of modular CBRN respiratory protection products together with consultancy services and tailored training packages allows us to deliver truly end-to-end procurement solutions to a global market.

We have supplied respirators to the UK Ministry of Defence and other NATO allies since the 1920's and we are the primary supplier of CBRN respiratory equipment to the United States DOD Army, Navy, Marines, Air Force and Special Operations Forces.

Respiratory protection, CBRN filtration, personal decontamination products, Self-Contained Breathing Apparatus, various rubber product solutions for industry, rubber bladder liquid storage solutions, CBRN Consulting, CBRN personal equipment Training, operational support to industry, media and non-governmental organisations, equipment servicing and maintenance, project management, consequence management.



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Established 1974

Number of employees 30

Main products/services or technologies

- Remote Waste segregation packaging/sorting Experience/results, past clients
- Reactor decommissioning /demolition
- Remote Waste management sorting packaging/size reduction
- Projects completed in America, Russia, China, UK, Sweden, Germany, France and Japan



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Established in 2010 (Cavendish Nuclear's predecessor companies date from the 1950s). Our capital is £68.5 million and we have approximately 6,000 employees. Cavendish Nuclear is the UK's largest specialist nuclear support services organisation and is able to provide safe, effective solutions for the entire nuclear lifecycle; from design and build, through operation and maintenance, to decommissioning, waste management and remediation.

We have successfully completed some of the UK's most challenging decommissioning projects. Our decommissioning projects are supported by our radiological characterisation services, which provide an accurate analysis of the radionuclide content of waste, ensuring its safe and cost-effective disposal.

Cavendish Nuclear is the lead organization responsible for managing the decommissioning of the UK's Magnox, Dounreay, Harwell and Winfrith sites.



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Centronic was founded in 1945 and is an established manufacturer of radiation detectors and associated equipment. As a privately owned, independent company currently employing 125 staff with an annual turnover of £10m, Centronic continues to grow whilst further consolidating its already strong position as a market leader in niche engineering for the nuclear industry.

Centronic produces a comprehensive range of standard products that includes gamma radiation and neutron detectors, Geiger-Müller tubes, silicon photodiodes, electromagnetic wound components and machining services.

Centronic is highly accomplished in the design, manufacture, test and qualification of gas-filled radiation detectors for nuclear applications, developing solutions for nuclear and other hazardous and safety critical applications to suit specific customer requirements.

We are one of the leading radiation detector suppliers, supporting the world's power generation, industrial OEM, medical, aerospace and defence applications.



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Createc is an innovative technology company and has combined decades of experience of the nuclear industry with exploitation of the latest technologies in sensors and computer vision. The result is a range of products and technologies for radiation imaging, that can fully characterise even the most challenging environments



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Established in 1980, Croft Associates Ltd is an SME employing 20 professional engineers and scientists. We have over 35 years' experience in developing safe and innovative solutions for the transport of radioactive materials, and for the long term storage and disposability of radioactive wastes.

We are recognised as a Design Authority by the industry regulators, and established as an Approval Authority for IP-2 and Type A packages internationally. We also manage approvals and validations for Type B and Fissile transport packages with the UK and other Competent Authorities world-wide. We hold over 100 approvals and to date, thousands of our containers have been supplied and are in use worldwide.

We provide a broad range of services including design, testing, licensing, and supply of products to meet national and international regulations. System Engineering: Cradle-to-grave transport solutions, Design & Development: To meet customer and regulatory requirements, Licensing: Complete service through to Competent Authority approval, Nuclear Technical Services: A range of support services for transport and nuclear plant operations, Testing: For regulatory compliance and specific customer needs, Manufacture and Procurement: To certified and approved quality systems, Maintenance: Of all package types (IP, Type A and Type B), Support to Transport & Shipping: Services to support shipment of radioactive materials, Training: A range of supporting training services Disposability Assessments: We support Letter of Compliance disposability assessments, Hiring of Packages: From a stock of commonly used packages



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CW Fletcher are an advanced manufacturing company capable of fabrication and machining in a range of metals and metal alloys in sizes up to 2 metres diameter. Our core range of machining and fabrication skills are in the size range up to 1.3m. Specific to the nuclear industry, we have value-streams capable in machined from solid components and machined fabrications. CW Fletcher employ around 180 people at a purpose-built manufacturing facility in the centre of the UK and are obviously the safest partner for any customer, in whatever market we chose to serve.

Our range includes:

Precision CNC machining and fabrication in size ranges up to 2 metres.

A range of press capabilities

Non Destructive Testing

Heat Treatment (air furnace)

A range of welding processes

Supply chain management



The University of Manchester
Dalton Nuclear Institute

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The Dalton Nuclear Institute at The University of Manchester established in 2005 has the most advanced academic nuclear research capability in the UK and is a leading centre for higher learning in nuclear science and engineering. Through academic and industrial interdisciplinary collaboration, we play a key role in providing the knowledge and skills needed to deliver a low-carbon future through nuclear energy. Our extensive world-class facilities and collaborative links help to drive innovation across the nuclear fuel cycle.

Our programme of nuclear skills training includes undergraduate course units and postgraduate qualifications. We also provide professional development courses for the domestic and international nuclear sector. The Institute maintains a number of strategic partnerships with industry, government and academia, ensuring that our research programmes have direct relevance to the nuclear sector.

The Dalton Nuclear Institute has grown to deliver the UK's largest and most networked academic capability in nuclear R&D and high-level skills development.



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DBD is a UK-registered, independent company providing innovative solutions to complex management, technical and engineering issues focused on highly regulated industries (particularly Nuclear). Our success since launch in 2004 has been built on the quality of our delivery to our clients, provided by our management and technical expertise

Management Advisory DBD provides management advisors with an impressive proven track record in strategic and business leadership. Using DBD developed processes, we provide our clients with high quality, transparent and auditable solutions.

We deliver:

- Strategy Development – Business and Technical
- Risk Identification and Resolution
- Decision Making Support
- Safety, Security and Environmental Management
- Commercial Management
- Technical Peer Reviews
- Leadership Development



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Delta Controls Ltd has been designing and manufacturing instrumentation for the power and process industries for over 65 years and has served the nuclear industry in the UK since the first nuclear reactors were designed and built over 55 years ago. A specialist in pressure, temperature and flow sensors, Delta has provided a range of generic and bespoke instruments to the industry across all the UK Nuclear Fleet including Magnox, AGR, PWR and FBR. Delta has also worked extensively on decommissioning projects, fuel processing and reprocessing working with BNFL (now Sellafield) Westinghouse and the UKAEA. Available instruments include products that meet the RCC-E and IEEE Class 1E for seismic and radiation endurance, many meeting SIL 2 requirements and numerous international Hazardous Area approvals. Delta has also worked in the worldwide nuclear industry for over 40 years with projects in China, Sweden, Finland, South Korea, the USA, Canada, India and Spain.



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Built on more than a century of innovation, UK-based engineering specialist Doosan Babcock provides asset support, maintenance, repair, modernisation and upgrade services. We provide mechanical, engineering and technology expertise in OEM and non-OEM plant to our customers across a range of sectors.

Doosan Babcock is part of a powerful combination of companies united under the Doosan Group to deliver expertise in technology, products and services for the global power generation industry.

Doosan Babcock provides full life-cycle support in nuclear engineering carrying out a key role in the UK nuclear decommissioning programme. We can facilitate the removal of radioactive waste and the remediation of nuclear facilities with the support of our Active Waste Management Facility.



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Eden Nuclear and Environment was established in 2007 to provide consultancy and management services within the nuclear sector and for users of radioactive materials. Our aim is to support our clients in the development of safe, sustainable and economically achievable solutions for radioactive waste management. The experience of our twelve-strong team encompasses support to operational and decommissioning nuclear sites, new nuclear build utilities and radioactive waste disposal.

We deliver a wide range of radiological risk assessments relating to the management of land with radioactive contamination. This covers civil nuclear and defence sites. We support UK nuclear industry in de-designation assessments under the Energy Act, ALARP reviews and provide technical review for investigative programmes and remediation



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The name 'Worcester Controls' is one of the many heritage/brand names within the 'Flowserve Flow Control' division of Flowserve Corporation. For over 50 years Worcester Controls have been manufacturing highly engineered ball valves for critical service applications. Flowserve Corporation is the world leader in supplying pumps, valves, seals, automation and services to the power, oil and gas, chemical and other industries. With more than 15000 employees in more than 50 countries, we combine our global reach with a local presence.

The Company's pedigree in nuclear covers a wide range of applications over a long period of supply. Worcester Controls have supplied all the nuclear power stations in the United Kingdom and various EU countries whether in power generation, re-processing or decommissioning as well as many other countries globally.



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Forth was established in 2000 as a specialist Hydraulics and Pneumatics Engineering Business. The range of products and services has evolved dramatically over 15 years, and we are now firmly established as a leading provider of innovative engineering solutions to the Nuclear Decommissioning industry. We provide these pragmatic solutions using years of expertise, coupled with state of the art technology. We have 24 staff working out of our Maryport offices, and are equally as happy providing solutions either from our workplace, or out on site.

State of the art Deep Recovery Facility – replicating the legacy ponds on Sellafield, a 27.5m x10m x 6m pond serviced with a 10tonne overhead crane, ideal for trialling equipment and training staff in a safe environment.

3 story mock-up which represents B30's wet bays including a mock-up of the Butterfly crane skip handler capsule and tooling.



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Frazer-Nash is a leading systems and engineering technology company. Established in 1971, we employ over 700 engineers, scientists, mathematicians and project managers across nine locations in the UK and three in Australia. We work in safety critical and high-hazard industries, with around 40% of our work in the nuclear sector.

Our systems approach helps us respond to our clients' challenges. We work with them to understand the whole range of financial, operational, organisational, people and other issues that surround their technical needs. And we use this understanding to deliver demonstrable business and technical value.

We combine engineering expertise with skills and knowledge from other fields, including: security and resilience, cyber, human factors, materials technology, and electrical and electronics engineering.

Renowned for our work in the UK nuclear sector, we deliver best practice to clients through our advanced technical capability.

We provide safety assurance services ranging from safety case authoring through licensing support and fire safety to Independent Nuclear Safety Assessment (INSA). We have environmental, radiological protection and waste management teams who support our assurance services.

Our advanced analytical and modelling capabilities are applied to many of our projects and include finite element analysis, fluid dynamic analysis and structural analysis.

In taking a systems engineering perspective we employ industry leading approaches including Requirements Engineering; Throughput, Reliability, Availability, Maintainability and Supportability (TRAMS) analysis.

We have delivered these services across the decommissioning lifecycle encompassing front end engineering design, asset management and disposal.



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GAU-Radioanalytical (GAU) is one of the UK's leading radioanalytical and consultancy provider that has been serving the nuclear and wider industry since 1987. GAU-Radioanalytical specialises in the assessment of radioactive and trace metal contaminants in all areas of the nuclear industry and the environment and undertakes fundamental and applied research, instrument and method development and industry training. The GAU's team of highly trained staff, with their industrial and research experience, provide innovative solutions to analytical problems. GAU operates from a suite of dedicated laboratories and are accredited to ISO/IEC17025:2005. They are committed to delivering specialised radioanalytical services and innovative analytical solutions whilst maintaining the highest levels of data quality and customer service.

GAU-Radioanalytical has significant experience in the delivery of radioanalytical services to commercial customers on both an individual contract level and as part of larger work-packages and frameworks. Over the last 5 years GAU has successfully delivered over 2500 contracts covering all aspects of radioanalytical and chemical analyses whilst maintaining strict KPI targets defined by our internal quality system (e.g. 99% of reports delivered on time; 2015-2016). In particular GAU has been a key supplier on the current Magnox RATS framework (Lot 2) having completed analysis of >1100 samples across 12 Magnox sites (2012-2016). Sample types processed have included liquids (waters, effluents, oils) soil, brick, MMMF, desiccant, metals and concrete, some of which require complex sample preparation prior to analysis (e.g. high-resolution concrete core slicing at the millimetre-scale or metal coupon depth profiling). GAU have also provided services and completed numerous work-packages including the analysis of concrete cores, soils, smears and paint by gamma spectrometry, and gross alpha/beta analysis and evaluation of Waste Acceptance Criteria (WAC).



Galson Sciences Limited

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Galson Sciences Limited was established in 1992, and has a 2017 turnover of about £4.5 million. We currently have 18 highly qualified and experienced employees (almost all with PhDs, and many with international reputations). We collaborate routinely with a number of select UK and overseas companies, research institutes and Associate staff. There is no parent company and no group companies.

Our work centres around research and consultancy in the areas of radioactive waste disposal safety assessment and safety case, nuclear decommissioning and radioactive waste management (conditioning, packaging, storage), supporting research and analyses, information management, nuclear regulation support, nuclear safety studies, and international reviews and research projects.



HARGREAVES

A COMPANY OF THE  M+W GROUP

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Hargreaves is one of the UK's leading providers of specialist air-movement, containment, heating, ventilation, ductwork and ultra high-purity pipework solutions.

With over 140 years of manufacturing expertise, Hargreaves delivers to the most exacting safety, quality and performance standards.

Applying state-of-the-art design technology and lean manufacturing techniques, Hargreaves is able to offer a complete high-integrity systems service from concept, initial design and engineering through to full fabrication and installation.

Producing bespoke solutions in a variety of materials and finishes, Our manufacturing team is fully qualified for the specific requirements of the nuclear industry and has a wealth of relevant experience to draw upon.

With extensive in-house design expertise, flexible production capabilities as well as skilled logistics and installation teams, Hargreaves has a demonstrable track record of delivering the most complex projects to the highest performance criteria.



HR Wallingford Ltd.

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HR Wallingford is an independent company which undertakes applied research and consultancy in the field of civil engineering hydraulics. From 1952 until 1982 we were the UK Government's national hydraulics laboratory but since privatisation we have been fully independent and technology neutral. We have in excess of 200 expert staff based in the UK and 8 overseas offices and we have been working in the UK nuclear industry since the company's formation. We undertake studies which involve advanced numerical modelling of water related issues, have a large physical modelling facility and full suite of navigation simulation facilities in our Oxfordshire HQ.

HR Wallingford works in the reduction of risk and uncertainty associated with the interaction of critical infrastructure with the marine and aquatic environments. Our services for nuclear decommissioning include dispersion studies for liquid effluent discharges, flood risk assessment, studies of extreme events including tsunamis and risk assessment of climate change impacts for coastal sites. We have worked on every UK nuclear power station site and supported the defence nuclear sector as well.



Hyde Group Nuclear

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Hyde Group Nuclear (HGN) provides engineering and manufacturing solutions to the nuclear industry. Building on Hyde Group's 30+ years' of experience supporting Nuclear clients, the specialist Nuclear division was established provide dedicated services. We offer nuclear design, Design and Build, Manufacturing and testing and development services delivering a range of complex requirements including; Mechanical Handling Equipment, Robotics and automated systems, Shielded equipment, glove-boxes and containment and component parts for the civil and nuclear defense sectors.

HGN provides access to more than 20 facilities, equipped with a complete range of machining, fabrication and associated manufacturing capabilities. This includes, a specialist nuclear manufacturing facility which, is designed to deliver to the industry's highest quality standards. Hyde Group's manufacturing facilities are able to deal with the broadest range of client requirements ranging from heavy machining to development of complex integrated equipment.



Industrial Technology Systems Limited (ITS Ltd)

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ITS, an independent systems integrator and Sellafield Control Systems Framework Partner, has extensive experience in the nuclear industry, having successfully completed over 150 projects for Sellafield Ltd, Low Level Waste Repository, National Nuclear Laboratory, Magnox, Cavendish Nuclear, Sizewell and Oldbury.

Established in 1991, ITS has 55 employees with a head office in Middlesbrough and a regional office in Warrington.

ITS specialises in the design and implementation of PLC, DCS and SCADA systems, IEC-61508/61511 compliant safety systems, non-contact vision systems, management information systems and fuel tracking solutions for the nuclear sector.

With accreditation to ISO 9001 and 14001 and our ability to deliver projects in compliance with ISA S88, S95, IEC 61131, 61511 and 61508 standards, customers can be confident in the quality of our services.



James Fisher
Nuclear



James Fisher Nuclear

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James Fisher Nuclear (JFN) is an established supplier of specialist engineering, manufacturing and technical services for applications within challenging environments or with high integrity requirements. Formed in 2005 calling on the expertise of our highly skilled workforce and our experience within decommissioning spanning the last four decades, JFN has tackled some of the largest technical and manufacturing challenges presented by our nuclear clients.

JFN operates its own in-house design, manufacture, works test facilities and site service operations enabling us to offer a full spectrum of services. From concept, design and manufacture; on to through life support for nuclearized off the shelf solutions, individual bespoke designs and complete turn-key solutions that are robust, reliable and cost effective.

Remotely Operated Vehicles Plant and Characterisation, Design and Remote Handling Design, Radiometric Systems, Modular Systems Design build and commission ISO freight based equipment including change rooms, vent plant, waste packaging and process equipment.



JGC Engineering & Technical Services Ltd

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UK Nuclear Energy Services – JGC Nuclear Services

Active in this sector for more than 40 years, we have successfully delivered bespoke and industry standard solutions to our clients. Our extensive knowledge and experience in statutory and legal requirements compliments our technical specialist knowledge ensuring we meet your needs – steadfastness, safety and success. JGC's experience in implementation, operations support and decommissioning of nuclear plant and facilities for civil nuclear and MOD sites ensures that we have the ability to deliver best value, services, products and projects. Our extensive experience and capabilities ensures we provide practical best value solutions to the challenges faced.

New Build and commission support for nuclear fast reactors – substantial installation and refurbishment experience including major fuel handling equipment, pressurised pipe-work systems, containment vessels and electrical control and instrumentation systems.

Decommissioning – fully integrated in house solution including dismantling and decontamination skills

Jordan manufacturing

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Established in 1964 in Yate, Bristol we are part of the Redhall Group, current Market Capital £13.25M.

For over 45 years we have been producing high integrity quality fabrications for a number of 41uilliam41iz markets and industries, including Nuclear. We undertake work either directly for Tier 1 Suppliers (ie SL, DSRL, Magnox, AWE), or through the supply chain via Tier 2 / 3 companies.

We currently have 100 employees, comprising engineering, procurement, SHEQ and support disciplines to oversee our skilled workshop / welding / fabrication personnel. We have fully accredited Management Systems (9001, 14001 and 18001) and CE marking upto and including Execution Class 4.

Our facility at Bristol measures over 5130 m2 and comprises segregated workshops (including machining facilities).

Extensive experience in fabrication, welding and bespoke manufacture, assembly & testing and installation of Specialised Products, Plant and Equipment.

Single item sizes can be accommodated in manufacture from the very small and intricate to very large and heavy requiring specialist handling – fabrications up to 80m long x 5m high, x 5m wide.

Key Capabilities are in Stainless Steel, Duplex, Super Duplex, Mild Steel (including specialist grades), aluminium, Exotic Alloys & Most Metallic based materials. We specialise in the manufacture and fabrication of bespoke items for the Nuclear industry.



DECOMMISSIONING DEMOLITION REMEDIATION

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Initially formed in 1990 as a traditional demolition contractor, (TO £1.5M) KDC has developed immeasurably to become a multi-disciplined business with a wealth of experience in the decommissioning, demolition and remediation markets across a variety of industrial sectors.

March 2008 saw the Management Buy Out with support from a global investment bank, providing a solid platform for continued growth of the company. KDC is an SME with current turnover £20M and 130 people.

KDC works in delivering “end of asset life” solutions. Our core service provision includes: strategy development, hazard, decontamination (asbestos, radiological and chemo-toxic), de-planting, asset appraisal and disposal, demolition and land remediation. KDC serves the nuclear industry in the UK.



Logical Personnel Solutions

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Logical Personnel Solutions are a UK based specialist staffing provider working within the Nuclear industry. We operate globally providing both blue and white collar nuclear professionals on a contract or permanent basis. Formed in 2006 we are currently operating with 500 contractors working on site for us.

We are a specialist recruitment and manpower provider working within the Nuclear Industry including decommissioning, build, maintenance, waste, design, consultancy and defence. Operating from the UK we tailor our service to our clients and mobilise staff globally, offering contingency and permanent recruitment solutions. Through our comprehensive database we can source suitably qualified, experienced personnel from all over the world utilizing our internal resourcing and vetting teams. Our candidates range from blue collar build specialists, through to safety case authors, design staff, project management, consultants and more. In the UK we partner with Radiation Protection Advisors (RPA) to provide all dosimetry information on all of our labour prior to deployment. We work to permanent requirements and both forecasted and emergency projects. We have the capabilities to mobilise highly skilled teams within 48 hours worldwide. Logical also have flexible vetting teams working to various standards including SC, CTC, DV and EDF. We can integrate our standards if need be.



Lucideon Limited

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Lucideon is an independent, international materials technology company that operates in a wide variety of sectors around the world. Headquartered in Stoke-on-Trent, Staffordshire, formerly the British Ceramics Research Association, was founded in 1948. The 200+ employees are made up of mostly graduates and post-graduate scientists. Assets are £10.512M.

At Lucideon, we work across the nuclear industry, providing comprehensive testing and analysis of materials, support encapsulation and separation technologies and failure mechanism assessments.



L2 Business Consulting Limited

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L2 Business Consulting Limited (L2) are a UK based independent provider of technical consultancy advice to the nuclear, oil/gas and other high hazard industries. With regard to nuclear decommissioning and radioactive waste our capabilities include development of decommissioning strategies, integrated waste strategies (IWS), decommissioning studies, radwaste studies, technology assessments, radwaste optioneering studies and Decommissioning & Waste Management Plans (DWMP), land quality strategies, site remediation studies, liability estimates and cost benchmarking.

We provide our decommissioning and radwaste consultancy advice across all elements of the nuclear fuel cycle including fuel manufacture, power generation, fuel reprocessing, R&D, waste management, decommissioning and radwaste disposal facilities, though extensive experience of delivering a diverse range of UK and International projects.

Our key offerings in decommissioning and radwaste consultancy are supported by additional capabilities in Environmental Permitting, Radiological Protection, Environmental Protection and Nuclear Licensing.

L2's integrated management system is accredited to ISO9001:2015.



matom

Matom Ltd

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Global Specialist in Radiological Protection and Decontamination

Established in 1999, Matom Ltd has grown to become one of the UK's leading providers of operational and consultancy Radiological Protection Services.

Matom is a Tier 1 supplier to Horizon Nuclear Power for the Nuclear New Build Programme and a Tier 2 supplier to the UK's Nuclear Decommissioning Authority (NDA); employing over 75 staff with an annual turnover exceeding £4m.

Accredited to ISO Standards 9001, 14001 and OSHAS 18001, Matom provides services internationally to a wide range of sectors including; Nuclear Decommissioning, Nuclear New Build, Oil & Gas, Military, Mining and other industries.



MCM International

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MCM International, founded in 2006, brings together a team of consultants with unique international strategic, scientific and technical experience in radioactive waste management.

The three partners, Dr Charles McCombie, Professor Neil Chapman and Dr Ian McKinley, have each been involved for over 35 years in planning, implementing and regulating nuclear waste programmes and projects worldwide.

They are complemented by a staff of 8 and an international group of Associates, who bring together a wealth of experience in every field of waste management. MCM is currently a partnership, with an annual turnover over 1 MGBP.

Provider of scientific and technical support on all aspects of radioactive waste management to governments, NGO's, regulators and implementers



MIRION
TECHNOLOGIES

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Mirion Technologies has specialised in protecting people, property and the environment for over 50 years – offering a broad range of radiation detection, measurement, analysis and visual systems and services in the nuclear industry.

Mirion operates globally with five divisions: Imaging Systems, Radiation Monitoring Systems, Sensing Systems, Dosimetry Services and Health Physics. Mirion's products and services are offered to a wide variety of customers including nuclear power plants and has over 700 employees worldwide.

The Imaging Systems Division (ISD) offers one of most recognizable brands in the nuclear industry for visual inspection and surveillance needs. The divisional headquarters are located in Farnborough, Hampshire, UK.

Suppliers of advanced CCTV inspection/surveillance camera systems for the Nuclear Industry



Mon Maintenance Services Ltd

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Mon Maintenance Services Ltd (MMS) is the 13th fastest growing company in Wales. Established in 2009, MMS now have 18 full time employees and have experience 238% growth over the past 3 years.

Experienced in working in industries with high expectations and standards, the company has made Health, Safety Environment and Quality its priority having amassed over 500,000 working hours without a single incident over six years.

Our quality has been recognised not only with growth and new contracts but with awards. As a past winner of a Daily Post Business Award and NDA Supply Chain awards the company is now one of the UK Champions, shortlisted for a European Business Award.

Specialising in mechanical, electrical, commercial and catering gas, welding and fabrication, Legionella and F-Gas Services, Mon Maintenance Services Ltd provide a quality comprehensive 'one stop shop' business-to-business installation, decommissioning and maintenance service to a number of Business Areas within the Industrial, Commercial, Utilities and FM sectors including Hard FM, Nuclear Decommissioning, Nuclear New Build, Wind Energy and Waste Water Treatment.



Multi Disciplined Engineering Consultants

Morson Projects Limited

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Since 1969, Morson Group has continually grown, broadening its range of services and evolving to become a leading provider of human capital and engineering design solutions to the engineering and technical business sectors. Morson Projects specialise in the supply of multi-disciplined engineering, project management, design and decommissioning services to clients within the nuclear, aerospace, process, & general engineering Industries. The services provided range from concept design development through to detail design and complete 'turn key' project supply and management services. Morson Projects has over 500 personnel housed within our modern, fully equipped offices utilising the latest technology. Morson Projects has current Framework contracts in place with the following nuclear clients: DSRL, Sellafield Ltd, SFL (Westinghouse), UKAEA, NNL, DSA.



Mott Macdonald

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Mott MacDonald is an engineering, management and development consultancy which provides the nuclear sector with a range of services to support both the civil and defence sectors.

Safe delivery of our services is our priority. Our robust nuclear safety culture means we apply a rigorous approach to risk and the application of continuous learning.

Our multidisciplinary team has the skills to deliver engineering projects. We manage and develop engineering solutions that optimise the benefits of technical innovation and provide end-user focused designs covering every aspect of nuclear engineering.

Our project delivery capabilities incorporate leading skills in project and programme management, project controls and commercial management.

Our understanding of the nuclear industry combined with expertise in other sectors of our 16,000 staff worldwide means we recognise knowledge, learning and experience from other industries.

We place significant emphasis on our people and have developed comprehensive sector skills and a large SQEP resource pool.



National Nuclear Laboratory

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The UK's National Nuclear Laboratory (NNL) offers a breadth of technical products and services covering the complete nuclear fuel cycle, from fuel manufacture and power generation to reprocessing, waste treatment and disposal. We are owned and managed by the UK Government, but we operate as a commercial business – with our revenue coming from the work we deliver for customers in the UK and overseas. We also provide strategic advice on nuclear science and technology matters into Government.

With over 10,000 man years of nuclear experience across the fuel cycle, coupled with world-leading nuclear R&D facilities, we deliver the experts and technologies that ensure that our customers' activities are carried out safely, efficiently and cost effectively. In the area of waste management and decommissioning our products and services are largely focused on the development and application of technologies that assist our customers with the eventual decommissioning of nuclear facilities. These include post-operational clean-out, environmental services, waste residue processing and waste management technology. We have experience of dealing with a wide variety of wastes and our facilities can handle virtually any nuclear material.



National Skills Academy for Nuclear (NSAN)

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NSAN was established in 2008 as an employer led and funded organisation. With over 120 employer members NSAN has developed into a strong and effective collaborative forum for companies from across the nuclear sector to work together to identify and address skills challenges facing the nuclear programme. NSAN and its members work closely with Government in areas such as apprenticeships and skills policy. NSAN is dedicated to improving skills in the nuclear industry by setting the highest standards of excellence, leading the sourcing and provision of skills solutions and expanding the nuclear sector's capabilities.

This is achieved by working collaboratively to deliver outstanding levels of service, enhancing the value provided to members and other stakeholders.

NSAN has established a comprehensive High Quality Training Provider Network (HQTPN) that offers skills development, education and training at all levels both in the UK and internationally. This HQTPN now has over 55 members and includes: Universities; College and Private Training Providers Also available are innovative skills solutions



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Established in 1983 and with 150 employees, NIS are an engineering organisation who are proud to provide bespoke, pragmatic, design and manufacturing services to clients working across quality driven sectors.

Our key objective is building on our history in provision of solutions to client's problems, using our experience and knowledge, while creating and maintaining world class performance. This is achieved by our continual pursuit of excellence.

Our core values of Protect, Commit, Respect and Inspire are at the heart of everything we do, it's imperative to us that we deliver on our responsibilities. We do not just comply, we exceed, with nothing being more important to us than our safe, healthy workforce along with delighted customers and satisfied stakeholders.

NIS offers a full lifecycle engineering design service, from initial concept, optioneering and front end design, through to detail design, prototyping and manufacture implementation.

Our core business can be summarised as the design and manufacture including assembly, test, installation and commissioning of special purpose equipment including;

Mechanical handling plant and equipment

Glovebox containments

Research and development test rigs

Special purpose machines

Automated assembly lines and cells

Integration, tooling and programming of robots

Control system design and software coding

Fabrication



Nuclear Technologies

TUV SUD UK Ltd and Nuclear Technologies

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Nuclear Technologies is a division and trading name of TUV SUD Ltd. The division supplies specialist consultancy services to the nuclear industry in the fields of radiation safety case management and production, shielding and criticality design and assessment, radioactive waste management, environmental management, contaminated land management and decommissioning and engineering management. Nuclear Technologies employs ~100 consultants and support staff located throughout the UK. We have offices in Warrington, West Cumbria, Dounreay, Harwell and Gloucester.



Nuclear Technology Education Consortium

Educating the nuclear workforce since 2005.

NTEC Nuclear Technology Education Consortium

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Established in 2005 the Nuclear Technology Education Consortium (NTEC) brings together eight UK universities or educational organisations, to offer Master's level education in Nuclear Science and Technology. The consortium consists of –

- University of Birmingham;
- University of Central Lancashire;
- University of Leeds;
- University of Liverpool;
- University of Manchester;
- University of Sheffield;
- Defence Academy; Nuclear Department

The structure and content of the programme was established following extensive consultations with the nuclear industry, regulators and Government Departments. As well as a one year full-time option the twenty Master's level modules are offered in a "short-course" one-week format for current employees who wish to study on a part-time basis for a full Master's degree or a Postgraduate Diploma/Certificate. Individual modules are also available for continual professional development.



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Nuvia Limited has nearly 1000 staff and is an international nuclear specialist supporting all sectors across the nuclear lifecycle. Based at six locations in the UK including many nuclear licensed sites, the Company provides products and services in the areas of new build, plant life extension, operations & maintenance, radiation safety, decommissioning and waste management.

Nuvia's heritage dates back to the beginning of the UK nuclear industry and has grown to become a trusted provider of services with over 1,000 employees in the UK and a further 1,500 world-wide.

Nuvia's range of services supports the full project lifecycle. Our operational capability provides comprehensive support with a wide range of decontamination, decommissioning, demolition activities and site remediation work. Nuvia delivers an extensive range of cost-effective, off-the-shelf products to tackle a variety of requirements within a radiological environment.



OC Robotics

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OC Robotics was founded in 1997 and has established itself as a world leader in robotics for confined and hazardous environments. Innovation is one of OC Robotics' key strengths. OC Robotics has 30 employees across a range of engineering disciplines with a wealth of experience and expertise designing and realising cutting-edge technology, providing our clients with complete bespoke solutions, as well as standard products.

OC Robotics' develops robotic or remotely operated solutions for confined or hazardous environments. One of our core technologies is snake-arm robots. With a reach exceeding 3m, cumulative bend of over 180 degrees and small cross section – these highly flexible robots are ideal for working where humans or traditional robots cannot.

Controlled by OC Robotics' proprietary software, snake-arm robots are able to traverse cluttered environments and conduct activities such as inspection, fastening, manipulation, cleaning and laser cutting when integrated with off-the-shelf or custom-designed tools.

Snake-arm robots are ideally suited for nuclear applications, as the motors, electronics and control systems are situated outside of the environment, with only the arm itself deployed into the hazardous area.

PACTEC EPS LTD

PacTec EPS

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PacTec are the recognized industry leader in the design and manufacturing of tested and certified IP2 standard flexible packaging for LSA-II / SCO-II low level radioactive wastes (LLW), providing a complete solution with underpinning regulatory compliant documentation for the packaging and transport of LLW, meeting the requirements of the IAEA regulations for the *'safe transport of radioactive material, SSR-6*

Our innovative IP1 & IP2 flexible packaging solutions are used worldwide providing significant cost benefits associated with packaging efficiencies, transport and disposal solutions for LLW. Our capabilities also extend to providing proactive design and engineering support commitment throughout the solution development and implementation process, in order to ensure 'fit for purpose' and workable solutions are provided, supported by our nuclear experienced professional team. We can also provide additional consultancy and technical support with regard to regulatory compliance with our supporting RPA, DGSA and IMDG code professional.

In recognition of the achievements and benefits of introducing the innovative 'game changer' packaging technology, PacTec has received a number of awards for innovation from the UK NDA, Sellafield and the British Energy Coast Business Cluster.



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Oxand is an international consultancy and solutions provider with proven capabilities, knowledge management and tools for capital intensive assets in the Nuclear, Oil & Gas, Railways and Large Assets (Port, Airport, Road, Rail, Waterways) Industries. As an independent company we deliver risk-informed decision support information that provides returns across the life cycle of our client's assets.

Year of establishment – 2006 – 150 employees internationally

Oxand's expertise starts from the initial identification of issues, covers its analysis and offering options for problem solving and leads into the development of strategies and detailed plans which we can also assist with obtaining agreement for, from key stakeholders and regulators. Our consultants are also involved in design reviews, project planning, risk control and project management. With Simeo™, we have unique capabilities and references in simulating the behaviour of nuclear waste disposal from 50 to 5,000 years. With an extensive knowledge of ageing mechanisms and interactions between a wide range of scientific disciplines (mechanics, chemistry, physics, geo-mechanics), we deliver a robust long term safety benchmarking.



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Oxford Technologies has extensive and unique experience in the specification, conceptualisation, design, implementation and management of systems and processes for performing remote handling activities in hostile environments, particularly nuclear decommissioning.

With a proven track record for delivering high quality, value for money solutions through our highly professional engineering teams, the company has grown consistently over the past 15 years, with much of this growth based on orders from returning customers and recommendations to new clients.

Our core customer base is within the nuclear decommissioning, nuclear fusion, high-energy physics and space sectors.

The company, employing nearly 100 staff, was formed in 2000 as a spin-off from JET, where it delivered the world's first remote handling solution inside a Nuclear Fusion reactor.



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Pöyry Energy Ltd is a UK registered company which has provided nuclear engineering and consultancy in the UK and overseas for over 30 years. We have 40+ UK based staff in safety and licensing, supported by a UK based team of technical experts in various engineering disciplines, providing specific experience of safety cases and design for decommissioning.

Pöyry Energy's staff are based in a variety of locations close to main clients and, in addition to our full-time staff, we have developed a supply chain of highly skilled UK based nuclear professionals to supplement our services.

Our clients for nuclear energy services include Developers, Owners, Vendors, Contractors, Regulators and Financial Institutions. We are currently employed on a number of decommissioning projects.

Example UK-based decommissioning services: Integrated safety and design; safety case production and independent review; design and independent review of ventilation, filtration and containment systems; strategic/options studies; collection, assessment, verification of radioactive waste inventory data; consultancy on waste composition, packaging and transport; and assessment of radiological decontamination techniques.



Prospect Law

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Prospect Law is a Multi-Disciplinary Practice providing a unique combination of legal and technical advisory services for clients involved in the development, operation and decommissioning of nuclear energy projects.

Our nuclear team combines specialist lawyers with policy, regulatory and financial experts drawn from a range of professional disciplines including engineering, surveying and the finance sector.

This combination of legal and non-legal experts gives our advice a unique strength and depth across the sector, with real experience of all aspects of the lifecycle of a nuclear power station from permitting, construction, regulatory risk and nuclear liabilities through to operation, transportation and disposal of radioactive waste, and decommissioning.

The firm is a signatory to the Nuclear Decommissioning Authority's (NDA) Supply Chain Charter, and our lawyers are individual members of the International Nuclear Law Association and the Nuclear Institute and serve on a number of their specialist committees. Our non-lawyer nuclear advisors are well respected internationally and work as experts with the IAEA, OECD-NEA and European Commission.

provelio

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Provelio are a management consultancy which provides a range of consultancy services. The company was established in April 2002 as a privately owned company. It is based in the UK, with offices based in Reading, London, Bristol, Cardiff and Cornwall. Currently, Provelio employ 22 consultants and 7 administrative staff. The turnover for the year 2014 was 2,517,557.

Provelio offer four key services:

- Strategic management: Helping organisations to set a strategic direction which enables them to get the most out of their three key assets: buildings, people and technology
- Project management: Management services for capital projects; Provelio's consultants manage a range of estates, facilities and construction projects from values of £100k to several million.
- Change management: Managing change programmes effectively so that business outcomes are achieved, change initiatives are adopted effortlessly, and value is maximised from key assets
- Cost reduction: Managing cost reduction programmes to help organisations to systematically look at all costs and reduce them by eliminating waste, without sacrificing value.
- Procurement and contract management: Enabling organisations to spend effectively, make sustainable savings and enhance their supply chains



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Raddec International Limited (Radiochemical and Decommissioning Solutions) was established in 2003 and is the leading producer internationally of innovative instruments for extracting volatile radionuclides from decommissioning and environmental materials. Our instruments are used in nuclear, research, defense and commercial laboratories worldwide. The systems have been developed following rigorous testing to ensure rapid extraction of tritium C-14 and halogens from diverse materials including decommissioning wastes (concrete, graphite, metal, insulation, etc). and environmental materials (soils, biota).

The Pyrolyser multi-tube extraction systems are fully integrated, space efficient instruments that incorporate controllable heating, metered air and oxygen flows, catalytic oxidation and an extraction chain to quantitatively trap fully-oxidized sample decomposition products. Up to 6 samples can be extracted at one time over a period as short as three hours. We also produce a Hyperbaric Oxidiser to facilitate rapid decomposition of large organic-rich matrices.



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Risktec Solutions is an established, independent and specialist risk management consulting and training company, and is part of the TÜV Rheinland Group. We assist clients in major hazard industries as well as commercial and public sectors to manage health, safety, security, environmental and business risk. Since starting in 2001 we have over 270 employees.

Risktec has its principal office in Warrington in the UK, centre of UK Nuclear Engineering. Risktec is owned by its employees, hence promoting stability and involvement. In 2010 Risktec ranked 93rd fastest-growing private company in the UK, 80th in the Sunday Times International Track 100 of British firms with the fastest-growing overseas sales. We are privileged to have worked with many of the world's best companies as clients in the civil nuclear market.



RODGERS LEASK
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Established in Derby in 1984, Rodgers Leask has been delivering major civil engineering and building projects for over 30 years.

From our Derby, Birmingham, London and Gloucestershire offices and with over 60 technical staff we provide high quality, cost effective, practical and buildable solutions to our clients. We draw on a vast wealth of experience in delivering projects of every size, type and complexity to offer innovative integrated design solutions.

Our continuous investment in staff training and state of the art IT systems ensures that current BIM techniques and best practice principles are available to our clients.

We are RoSPA, ISO9001 and ISO14001 accredited, a member of the Nuclear Industry Association and a signatory to the NDA Supply Chain Charter.

Rodgers Leask offers a full range of services. In specialist nuclear decommissioning we provide experts in decommissioning strategy, technologies and implementation who have knowledge and in-depth experience of decommissioning in general, regulatory compliance, radioactive waste management, process technologies for waste volume reduction, invention/process engineering/implementation of novel decommissioning and decontamination technologies.



Rolls-Royce

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For some 50 years, Rolls-Royce has been helping nuclear customers to maximise plant operation and safely extend plant lifetimes. Our strength is built upon trusted partnerships with customers. Our experience is built on:

- Safety, reliability, world-class engineering and manufacturing;
- Supporting vendors, licensees and operators;
- Being an operator and licensee of nuclear facilities ourselves.

At Rolls-Royce, our focus is on providing utility customers with integrated, long-term support services across the reactor lifecycle, covering safety, licensing and environmental activities; component design, manufacture and supply; in-service support and plant life extension; as well as nuclear instrumentation and control and safety systems. Our customers rely on Rolls-Royce solutions in new build, operations and decommissioning.

With nuclear-certified supply chain expertise, we are able to meet the growing needs of our customers in today's global nuclear market.



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Servelec Controls is an independent integrator of mission-critical control and safety systems and is part of the Servelec Group, one of the UK's largest independent technology groups with turnover in excess of £60m and over 600 employees in 15 worldwide offices.

Servelec Controls has operated internationally for 40 years, building long lasting relationships with major blue chip energy companies and Tier 1 and Tier 2 suppliers.

Servelec Controls works with coal, gas and nuclear power operators, as well as renewable energy sources, to increase efficiency, improve safety and automate potentially volatile environments. This also includes working to help reduce the UK's nuclear waste legacy in decommissioning. With increasing scrutiny from government bodies, safety groups and the general public, we help to ensure the UK continues to produce enough domestic power using the most efficient and environmentally friendly methods.



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SC Innovation is a 'solutions provider' engineering business with a proven pedigree in delivering bespoke high value mechanical and electrical engineering solutions to our customers exacting requirements.

Core engineering capabilities include

- Mechanical and electrical engineering,
- Structural analysis (metallic & composite structures),
- Structural optimisation,
- Fluid structural simulation,
- Test and Validation (including full system prototype build),
- Knowledge management.
- Project Management

The business also has an established production capability carrying out low rate, high quality build of machines, equipment and vehicles.

Together with the professional in-house project management team these capabilities have combined to successfully deliver projects for the MoD, the R.N.L.I, Fred. Olsen, AGIP and James Fisher plc

SC Innovation is part of the SC Group with a pedigree in working to the highest standards and procedures as evidenced by the group's standing as a long term supplier to the MoD (under the SC Supacat brand).



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The Shadow Robot Company was founded in 1987 by a group of robotics enthusiasts in London; the group has since evolved into one of the longest running robotics companies in the UK, developing dexterous robotics manipulation technologies ('hands for robots') and using them to solve real world problems.

Shadow develops the world-renowned Dexterous Hand, an advanced robot hand system that provides movements to reproduce as closely as possible the kinematics and dexterity of the human hand. The hand is used globally by researchers advancing the state of the art in robotics - working out how robots can handle, grasp and manipulate objects.

The Shadow Dexterous Hand offers the possibility of constructing a robot with the same manipulation abilities as a human, which could be operated remotely to perform a task deftly and safely.



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Structure Vision Ltd was established in 2003 as a spin out from the University of Leeds. Our first software product – DigiPac™ –also the development of NuPlant™ – specifically designed to address the needs of the Nuclear Decommissioning community. Structure Vision Ltd is privately owned.

We provide software licenses and services based around our two main product lines: DigiPac™ and NuPlant™. DigiPac™ is a generic structure-property relationships modelling tool for particulate systems, NuPlant™ is specifically designed for nuclear decommissioning.



TSP

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We work in partnership with our clients to deliver high quality, innovative solutions to meet your business requirements.

TSP has over 500 employees operating out of five sites all with high levels of expertise in a truly multi-disciplined offering.

Our manufacturing site is one of the largest engineering facilities in the UK, with many years of experience in heavy engineering, manufacturing and refurbishment.

We have a long standing history of supplying nuclear waste transport and spent fuel flasks and are actively involved in producing effective solutions that improve processes, using value engineering and the latest technology



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We were formed in the 1950's as part of Taylor Woodrow who built the world's first commercial nuclear reactor at Calder Hall (now Sellafield). Originally our remit was research, design and testing of materials, specifically concretes, for the fledgling nuclear power programme. Taylor Woodrow were acquired in 2008 by VINCI Construction UK Limited who are part of VINCI S/A the world's leading construction and concessions company with a turnover of €44b.

Our team work across the UK and beyond and comprise of 75 engineers, scientists and consultants.

Expertise includes:

Drop testing of flasks for nuclear waste (specialist indoor facility)

Concrete mix design, development and testing

Specialist surveying surveys including difficult access

Full scale mock-up / simulation



The Technology Partnership

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TTP is a specialist technology development company with expertise across physics, electronic and mechanical engineering. TTP was founded in 1988 and the group has over 300 employees and a turnover of approximately £55million/yr

Current and past clients / experience:

Current and past clients include Sellafield, the UK Ministry of Defence and their tier 1 contractors. TTP has also worked in the capability areas described above for over 1000 companies outside the nuclear industry and has a record of using technology from these other sectors to benefit the nuclear industry.

We provide bespoke technology development with transfer of ownership or control of resulting know-how and intellectual property to the customer.



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Toro Shelters design and build re-locatable buildings. Our tensioned PVC membrane structures provide clear span protection from the elements for 100-12,000 square meters, perfect for temporary or permanent, workshops, hangars, warehouses, habitats and waste transfer shelters. Our modular buildings make high quality offices, workshops, accommodation and welfare facilities. Toro Shelter structures are designed and built in accordance with Eurocode standards.



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Turnell and Odell Ltd are leading precision engineers providing a range of CNC manufacturing and engineering services.

With over 100 years' experience in the machining of precision engineered components, we can demonstrate a track record supporting prototype development, small batch and volume based production within engineering, manufacturing and high performance technology sectors, including the UK civil nuclear sector.

Our quality systems are approved to ISO9001 and AS9100C, with our commitment to quality having secured us preferred supplier status with many high profile and prestigious companies.

Our philosophy is centred on continuous improvement, ensuring we keep up to date with advanced manufacturing techniques, utilising the latest machine tool technology and continually investing in staff development, so we may provide a flexible and reliable service and ensure you receive the highest standards of workmanship combined with the best possible value for money.



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Founded almost 20 years ago, Waldeck is recognised as one of the UK's leading mid-sized multi-disciplinary digital engineering and BIM, design and risk management consultancies advising on the construction and life-cycle of built assets.

Waldeck are almost unique in the sector undertaking projects of virtually any size to support new nuclear build, existing licensed sites, waste storage, processing and decommissioning, applying our cutting edge expertise in Digital Engineering and BIM to enhance project certainty, not just for capex and construction stage but for the full operation, maintenance and decommissioning cycle too.

Aligned with the delivery of safety, quality and value for money, we listen to our clients, engaging closely together to deliver the right results and ensure compliance and best practice through systems and procedures.



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Westinghouse has extensive experience in decommissioning pressurized water reactors (PWRs), boiling water reactors (BWRs), gas-cooled reactors (GCRs), sodium-cooled reactors, research reactors and fuel fabrication plants. Westinghouse provides comprehensive, integrated services and state-of-the-art solutions for spent fuel and the treatment and handling of radioactive waste, and offers proven solutions for the interim storage and final disposal of all levels of waste.

For a comprehensive overview of Westinghouse's global Decommissioning, Decontamination and Waste Management expertise, please contact us directly.



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WSP is one of the world's leading engineering professional services consulting firms with 36,000 employees in 500 offices in 40 countries around the world. We operate in a number of sectors including nuclear. We provide services for nuclear projects including new-build, radioactive waste management, quality services, nuclear technology, and environmental and planning services.

WSP also provides a full range of QA/QC and inspection services to the nuclear sector where we are an ISO IEC 17020 Accredited Type 'A' Inspection Body and Notified Body for pressure systems.

WSP has over 20 years' experience supporting the UK Geological Disposal Facility programme and have worked on geological disposal and near-surface radioactive waste management projects in France (ANDRA), Sweden (SKB), Finland (Posiva), Switzerland (Nagra), Japan (NUMO), Australia (Department of Industry) and the USA (Yucca Mountain). In the UK we have also provided services to Magnox Ltd, Capenhurst Nuclear Services and URENCO.







DIT

The UK's Department for International Trade (DIT) has overall responsibility for promoting UK trade across the world and attracting foreign investment to our economy. We are a specialised government body with responsibility for negotiating international trade policy, supporting business, as well as delivering an outward-looking trade diplomacy strategy

Disclaimer

Whereas every effort has been made to ensure that the information in this document is accurate the Department for International Trade does not accept liability for any errors, omissions or misleading statements, and no warranty is given or responsibility accepted as to the standing of any individual, firm, company or other organisation mentioned.

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