THE FUSION CLUSTER

DIRECTORY **2026**

CONTENTS

✳ Suppliers and fusion energy developers who supplied details.
✳ Information correct at time of going to press.

3-SCI + ABMI ENGINEERING + ACTEMIUM + ACUITY ENGINEERING + AECOM + AFRY SOLUTIONS + ALPHA RING INTERNATIONAL + ALTRAD + ALTRUSION + AMENTUM + ANSALDO NUCLEAR + API CAPACITORS + ARCHER TECHNICOAT + ASD + ASSYSTEM + ASTRAL SYSTEMS + ATG SCIENTIFIC + ATKINSRÉALIS + ATLED ENGINEERING + BALFOUR BEATTY + BE4FUSION + BILFINGER + BROWN MCFARLANE + BURGES SALMON + BUSCH GROUP + C3 COMMUNICATIONS + CAELUS + CAIRNHILL STRUCTURES + CAMBRIDGE MULTIPHYSICS + CAPULA + CARBOLITE + CENTRONIC + CFMS + COMMONWEALTH FUSION SYSTEMS + COMSOL + COPENHAGEN ATOMICS + CREATEC + CRITICAL SOFTWARE + CULHAM INNOVATION CENTRE + DBD INTERNATIONAL + DIGILAB + DYNAMIC MINDS RECRUITMENT + DYNEX SEMICONDUCTOR + EGB ENGINEERING + ELEMENT SIX + ELITE MANUFACTURING SOLUTIONS + EOS ATOMICS + EQUILIBRION + EXENTEC HARGREAVES + FEINN FRONTIERS IN ENERGY INNOVATIONS + FIREFLY FUSION + FIRST LIGHT FUSION + FOCUSED ENERGY + FOREPOINT + FRAMATOME + FRAZER-NASH CONSULTANCY + FREEMELT + FUJIKURA + FUSION ENERGY COUNCIL OF CANADA + FUSION ENERGY INSIGHTS + FUSION ENERGY PARTNERS + FUSION ENGINEERING CDT + FUSION INDUSTRY ASSOCIATION + FUSION INDUSTRY SCHOOL + FUSION INSTRUMENTS + FUSIONX + GAUSS FUSION + GENERAL FUSION + GLOBUS METAL POWDERS + GSF UK + GVT GMBH & CO + HAH SOFTWARE + HELIXOS + HUTCHINSON ENGINEERING + HYPERION MATERIALS & TECHNOLOGIES + ICEOXFORD + IDOM + INDIMAJ GROUP + INDUCHEM GROUP + INNOVATE UK + INNOVATIVE PHYSICS + IS-INSTRUMENTS + JCS NUCLEAR SOLUTIONS + JEMA ENERGY + JOHN ELLISON ELECTRONICS + KI CONSULTANCY + KIER + KINECTRICS + KUKA SYSTEMS UK + KYOTO FUSIONEERING + LABORATORY FOR SCIENTIFIC COMPUTING AT THE UNIVERSITY OF CAMBRIDGE + LASER 2000 UK + LASER ADDITIVE SOLUTIONS + LEYBOLD UK + LOWE STILLAGES & CAGES + LTI METALTECH + LUCIDEON + LUFFY AI + M5TEC + MATERION UK + MCT BRATTBERG + MUWAVE + N.T.I MEASURE + NASCENT SEMICONDUCTOR + NEO NEGOTIUM + NIS + NOVATRON FUSION GROUP + NUCLEAR CAREERS + NUCLEAR COLLABORATION + NUCLEAR JOBS + OBSERVATORY SCIENCES + OCEM POWER ELECTRONICS + OPENSPDM + OPTIMA SYSTEMS CONSULTANCY + OPTOMAN + ORANO + OXFORD CRYOSYSTEMS + OXFORD SIGMA + PILLSBURY WINTHROP SHAW PITTMAN + PLASMATE + POLAR MEDIA + PORVAIR FILTRATION GROUP + PRECISION CERAMICS + PRORSUS + PROXIMA FUSION + QENIQ ADVISORY + QUANTUM LEAP ENERGY + RADCLIFFES CONSTRUCTION CONSULTANTS + RDP ELECTRONICS + REACT ENGINEERING + REALTA FUSION + RED ENGINEERING + REDGRAY ENGINEERING + RENAISSANCE FUSION + RIDGWAY MACHINES + RISKTEC SOLUTIONS + ROLLS-ROYCE + ROTEX TECHNOLOGIES + RULLION + SCX + SIMIC + SIMPLYBD + SOLAR FLARE SERVICES + STEEL DYNAMICS UK + STEP FUSION + STILL CURIOUS + SUPERPOWER + SWANSEA UNIVERSITY + THALES + THE COCKCROFT INSTITUTE + THE MANUFACTURING TECHNOLOGY CENTRE + THEA ENERGY + TOKAMAK ENERGY + TYPE ONE ENERGY + UK INNOVATION & SCIENCE SEED FUND + UKAEA + ULTIMA FORMA + UNIVERSITY OF BIRMINGHAM, SCHOOL OF METALLURGY AND MATERIALS + UNIVERSITY OF YORK NUCLEAR PHYSICS GROUP + VEOLIA NUCLEAR SOLUTIONS + VERDER SCIENTIFIC + WRIGHT ENGINEERING + ZANON RESEARCH AND INNOVATION

Welcome

to The Fusion Cluster.

THE FUSION CLUSTER BRINGS THE RIGHT ORGANISATIONS AND PEOPLE TOGETHER TO GET TO FUSION FASTER.

Welcome to the 2026 edition of The Fusion Cluster directory.

Fusion is moving from the lab to commercial reality.
And at The Fusion Cluster we're helping to make it happen.
We bring together fusion developers, the supply chain, investors, academia and government to turn progress into something tangible.

Since 2021, the cluster has grown into a community that opens doors. We connect the right people, spark meaningful collaborations, and help companies find opportunities they might not have found on their own – from first conversations to first orders.

At its heart, the cluster is a place where ideas, expertise and ambition come together. A trusted forum where relationships are built, knowledge is shared, and momentum gathers.

Across 80 pages, this directory captures the breadth of capability and depth of expertise across the fusion industry, from global fusion developers to the specialist organisations supporting them.

Together, they represent something powerful: a growing ecosystem, working collectively to bring fusion energy closer to the grid.

If your organisation is working on fusion, join us for free.

Dr Valerie Jamieson
Development manager
The Fusion Cluster

To join us visit
thefusioncluster.com
LinkedIn @the-fusion-cluster

Fusion is thriving

Key markets for fusion:

- Electricity generation
- Industrial heat
- Hydrogen and ammonia
- Space propulsion
- Medical isotopes

THE FUSION CLUSTER

$16.7bn

We're seeing strong investment in fusion companies

(FusionX, actual to end 2025)

566

More UK suppliers than ever

(London Economics, Overview of the UK Fusion Sector, July 2023)

$40tn

A huge market valuation

(Bloomberg Intelligence, December 2021)

73%↑

Annual spend in the supply chain went up in 2024

(Fusion Industry Association, The Fusion Industry Supply Chain 2025)

$7bn

Our annual value to suppliers will rise with a first-of-a-kind power plant

(Fusion Industry Association, The Fusion Industry Supply Chain, 2023)

80%

Today, 80% of the world's energy comes from fossil fuels

By 2050, we're aiming for 0%

X10m

Fusion will release 10 million times more energy per kilogram than fossil fuels

About The Fusion Cluster

Since October 2021, The Fusion Cluster has grown from a handful of companies to **more than 540 organisations** working in fusion energy.

WHAT THE CLUSTER OFFERS

ACCESS TO TALENT
The UK has an experienced, multi-talented fusion workforce and a pipeline of graduates and apprentices.

KNOWLEDGE SHARING
Newsletters, networking events, and supply chain days.

SHOWCASING FUSION
Raising awareness of fusion at local, national and international level across many different channels.

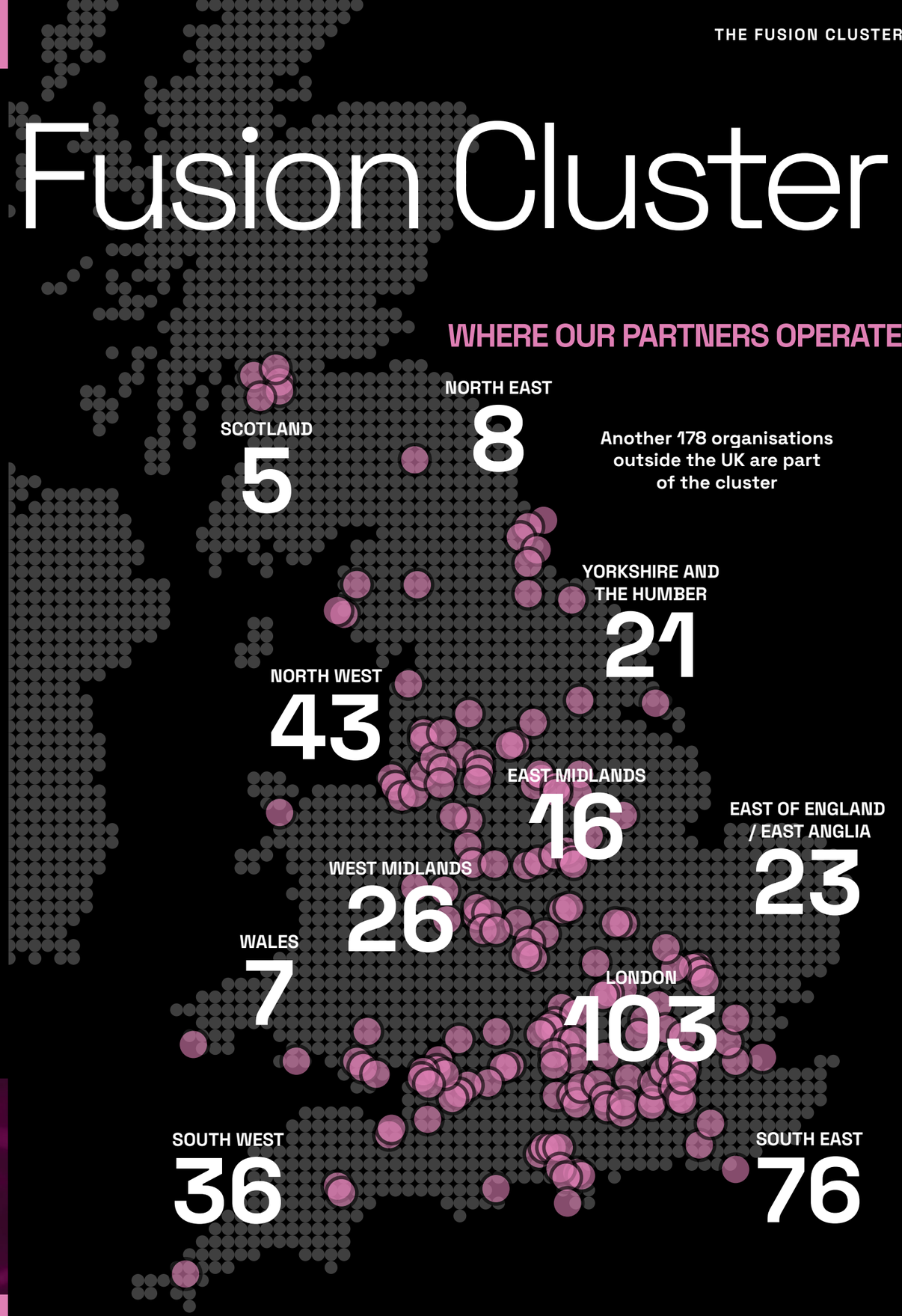
SUPPORT FOR START-UPS
Business incubation, flexible office space and links to investors.

ACCESS TO NATIONAL FACILITIES
World-class equipment is available for companies to test fusion fuel, prototypes, materials and maintenance.

Together, we're stronger.

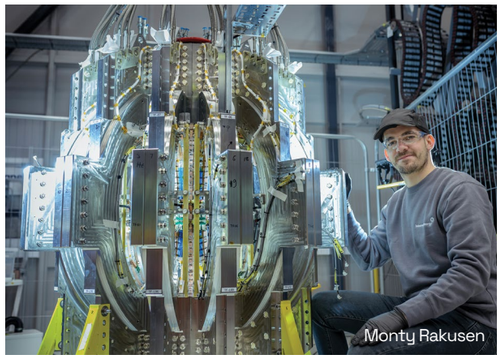
The Fusion Cluster Advisory Board brings together expertise from industry, supply chains, and investment.

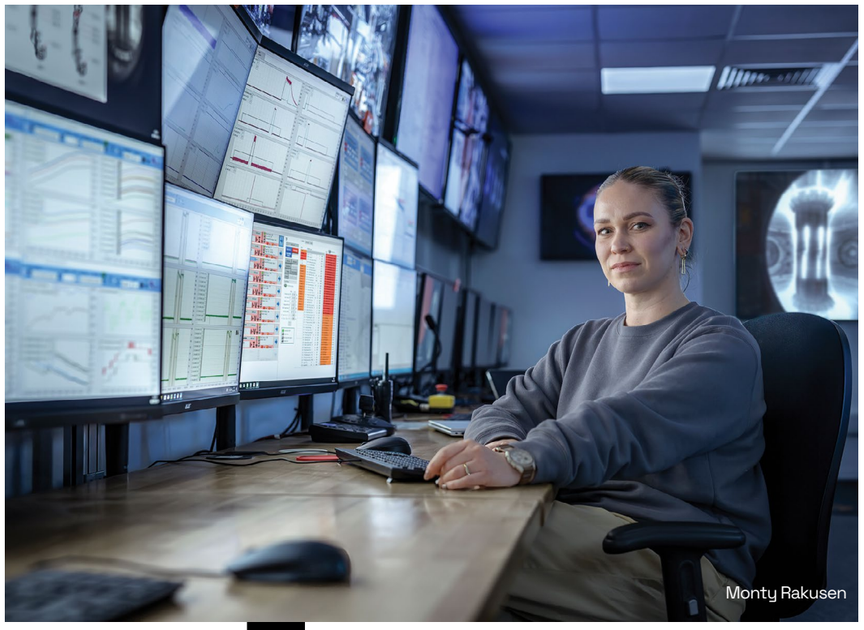
WHERE OUR PARTNERS OPERATE




Monty Rakusen

Fusion is the answer.


Monty Rakusen


Monty Rakusen


Monty Rakusen

And it starts with us.

COMPANY DIRECTORY

3-SCI

3-Sci fabricates innovative new products that emerge from our R&D activities, and sells them globally. We focus on novel transduction, electronics systems, wireless communication, remote non-intrusive wireless sensing, provision of software control and predictive analytics. These enable our clients to maintain their devices, structures and environments in an optimised condition. In supporting the fast-moving developments in fusion, we presently seek to introduce new, very high temperature sensing techniques based on some of our remote sensing developments.

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ABMI ENGINEERING

For over 40 years, ABMI has delivered specialised engineering expertise to leading industrial sectors worldwide, helping clients turn complex technical projects into reality across the full project lifecycle. Our dedicated teams collaborate closely to provide tailored solutions for every challenge.

With more than 20 years' experience in the energy sector - including civil nuclear power, renewables, and environmental facilities – ABMI offers expertise across civil and MEH engineering, covering site design, calculations, specialised studies, works management, and quality control. We provide project management and ownership, including coordination, subcontractor oversight, and overall project supervision. Our teams also design and manage electricity networks, from power and low-voltage systems to control-command, and automation solutions, and conduct technical studies such as thermal and thermodynamic analyses, modernisation and obsolescence assessments, and 3D simulations.

ABMI develops special tools and machinery through design, industrialisation, and testing of bespoke equipment, while ensuring nuclear safety through FACRs/NACRs drafting, regulatory impact assessments, and operational safety integration.

We also support maintenance and operations with lifecycle analysis, planning, spare parts forecasting, and commissioning oversight.

With a strong international presence, ABMI combines specialist engineering, nuclear know-how, and technical excellence to deliver innovative, sustainable solutions for industrial and energy infrastructure projects.

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ACTEMIUM

Actemium helps customers improve their industrial performance, delivering multi-discipline design and project management services to the UK nuclear industry. Our work has evolved from solving engineering challenges in decommissioning, waste retrieval, and remediation programmes, to supporting defence and nuclear new-build projects of national strategic importance.

In partnership with industry specialists, we provide HVAC, civil, structural and architectural engineering, industrial process engineering, and asset management. We cover the full project lifecycle, from the initial concept design through to commissioning of the final product. Using the latest 2D and 3D design software, computational modelling and stress analysis tools, our teams ensure rigorous compliance and thorough engineering checks at every stage

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ACUITY ENGINEERING

Acuity Engineering brings extensive engineering experience, specialising in delivery within highly regulated nuclear environments. Our core services include FEED, technical safety case leadership, programme and project management, tender and procurement support, MEP engineering, specialist and safety-critical design.

We believe that integration from day one drives alignment, accelerates decision-making, and eliminates costly inefficiencies. It underpins the "right first time" outcomes that clients demand. Acuity provide highly capable teams acting as dedicated technical integrators, ensuring clear alignment of objectives between client and delivery teams, accurate and traceable requirements management, streamlined and informed decision-making, early involvement and collaboration with the supply chain, and realisation of project benefits in cost, schedule, and specification.

Operating primarily within nuclear generational environments, Acuity recognises the value of operational experience that could be transferred into fusion development as the industry moves towards operational deployment in the coming decades.

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AECOM

AECOM is a global infrastructure leader providing integrated professional services across the full asset lifecycle, from advisory and planning through design and engineering to programme and construction management, spanning energy, environment, water, transportation and buildings.

In the nuclear and fusion sectors, AECOM supports projects from early concept and feasibility, site selection and master planning, through regulatory consents and licensing, balance of plant design, civil and structural engineering, and construction and commissioning support. We also offer cost and commercial management, digital delivery, safety case development, and long-term asset management and decommissioning expertise.

AECOM is actively supporting next-generation fusion development. We have partnered with Type One Energy to deliver preliminary design engineering for its Infinity Two stellarator fusion power plant.

We add value by integrating complex multidisciplinary teams at scale, applying systems thinking, constructability, digital engineering and robust cost and schedule control to reduce risk, accelerate delivery and optimise whole life performance.

Eloise John
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AFRY SOLUTIONS

At AFRY, we unlock transitions towards a sustainable and resilient society. While others are talking about the future, we are making it. Through our deep-sector expertise, we help our clients where the need for transformation is evident. Together, we turn challenges into opportunities and shape progress that lasts.

We provide engineering, project management, and advisory services that enable the energy and industrial transition and strengthen resilience in society. With 18,000 experts worldwide, we combine a global reach with local insights and deep sector knowledge to make a lasting impact for generations to come.

Our technical and engineering consulting services span architecture, management consulting, automation and manufacturing, automotive and mobility, buildings, defence, digital solutions and ICT, energy and power, environmental and sustainable solutions, food and life science, process industries, product development, project management and implementation, transport infrastructure, and water.

Dave Taylor
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"The Fusion Cluster monthly newsletter is the perfect place to keep up with fusion developments."

Darren Falkingham, Market engagement manager, SCX

COMPANY DIRECTORY

FUSION PRIME

Alpha Ring International

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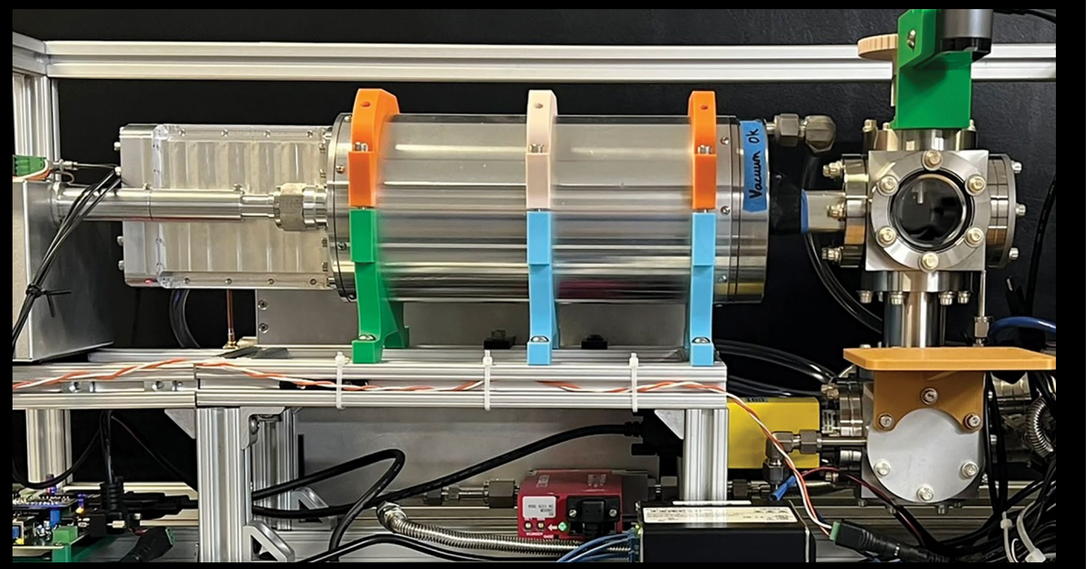

Alpha Ring International is a pioneering company in fusion technology, dedicated to advancing clean energy solutions and driving innovation across multiple sectors. We focus on the development of micro fusion reactors designed to generate surplus power, addressing the rapidly growing demand for sustainable energy driven by artificial intelligence applications.

Headquartered in California with additional labs in Taiwan and the UK, we specialise in aneutronic proton-boron fusion, which produces virtually no harmful radiation.

Our emphasis on table-top devices, rather than large-scale power plants, enables decentralisation of energy production. The compact size of our reactors allows rapid iteration and an accelerated path to market.

In addition to energy generation, we have developed the Alpha-E System, an educational platform integrating a scaled-down fusion system with advanced software to visualise fusion byproducts such as alpha particles, supported by a comprehensive curriculum.

Alpha Ring International is also developing a modular boron neutron capture therapy (BNCT) device for medical applications and commercialising specialised components for the broader fusion supply chain.

We collaborate with leading universities and are guided by a distinguished scientific advisory committee of internationally recognised physicists.

ALTRAD

Altrad has a 70-year heritage in nuclear, transforming from a boiler OEM into a supplier of specialist services and equipment, supporting both existing and new-build power plant. We operate across the full project lifecycle, providing services ranging from full EPC delivery, mechanical and electrical site delivery expertise, access and waste management services, specialist welding development, manufacturing integration, supply of nuclear pressure equipment, project delivery and NDT services.

We are currently supporting the UK's fusion programme as part of the UKAEA's industrial site services framework, providing a year-round core team at Culham Campus, manufacturing integration services and one of the tier-1 manufacturing framework partners for the STEP programme.

We see the potential for fusion to provide clean and reliable energy generation, and are excited to be involved in delivering the manufacturing, construction, maintenance and reliability services that will be required for future commercial fusion plants.

Our work is underpinned by our peoples' dedication, strong customer relationships and established site presence.

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ALTRUSION

Altrusion is building the one-stop shop for fusion energy companies and other innovators who need complex, high-performance components. Headquartered in Washington state near the growing "Fusion Freeway", Altrusion was founded to solve a critical challenge: fusion energy requires a specialised manufacturing infrastructure that does not yet fully exist. Delivering commercial fusion will depend not only on scientific breakthroughs, but also on a robust, scalable supply chain capable of producing advanced materials, precision systems, and mission-critical hardware.

Through its "Supply Chain as a Service" model, Altrusion connects fusion developers with qualified and vetted suppliers that meet the demanding technical, quality, and regulatory standards of next-generation energy systems. The company streamlines sourcing, reduces procurement risk, and accelerates delivery timelines by aligning engineering requirements with manufacturing expertise.

In parallel, Altrusion is strategically targeting acquisitions across key segments of the fusion supply chain to strengthen domestic production capacity and ensure long-term resilience. By integrating specialised manufacturers and fostering industry partnerships, Altrusion is laying the industrial foundation needed to bring fusion energy from prototype to commercial reality.

Gregory Van Dyk
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AMENTUM

Our commitment to fusion dates back more than 30 years. Since we began work on the Joint European Torus for the UK Atomic Energy Authority in the 1980s, we have remained at the forefront of design and engineering support for advanced research.

We are the delivery organisation for a substantial amount of UKAEA's engineering and we have worked for ITER from its inception to the present day. On a similar timescale, we have provided critical project delivery and systems engineering to the Lawrence Livermore National Laboratory's National Ignition Facility in the US. Our support to the National Ignition Facility continues today as we play an active role in its operations. In the US we also support the Department of Energy and private fusion organisations in delivery of their engineering programmes.

With 350 people working in fusion we provide: engineering integration, robotics and remote handling, fuel cycle engineering, plasma facing component design, manufacture and testing, maintenance and repurposing, materials science and digital engineering

We are making fusion science a practical reality, using our experiences of the toughest challenges in fusion.

Stuart Codling
Group director, global fusion
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amentum.com

ANSALDO NUCLEAR

Ansaldo Nuclear's history starts in the 1950s with the first nuclear power plants. We are proud to be one of the few nuclear companies in the UK to provide in-house capability covering the full lifecycle of bespoke solutions – design, engineering, manufacturing, assembly, testing, commissioning, site installation and integrated logistics through-life support.

We work seamlessly with our sister company in Italy, Ansaldo Nucleare. Together we have accumulated 30 years of experience supporting fusion reactor projects, including JET, STEP, DTT, DEMO and ITER. At ITER, we have secured multi-million pounds design and supply contracts as sole supplier or lead supplier in partnerships. These include the tokamak assembly and divertor validation programme. Ansaldo Nuclear supports all sectors of the nuclear industry from new builds and operational sites to decommissioning in both the civil and defence markets. Ansaldo Nuclear is a part of the Italian Group Ansaldo Energia, which has a worldwide workforce of more than 3,500. Ansaldo Energia is a globally recognised brand in power generation with an installed capacity of more than 176 GW over 1,800 projects completed in over 90 countries.

Charles Mendes
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API CAPACITORS

API Capacitors Limited is the leading UK manufacturer of high-performance power capacitors for power electronic applications including fusion. The company was previously part of Norfolk Capacitors and Standard Telephone and Cable, giving the company over 100 years of capacitor manufacturing heritage.

The business currently operates from a 2,000 m² manufacturing facility in Great Yarmouth, Norfolk, producing a variety of capacitor product ranges. This location benefits from excellent road links and proximity to major UK ports and airports, ensuring efficient logistics. To support its growth and enhance manufacturing capabilities, the group has recently acquired a larger 8,500 m² facility.

Damien Dalton
Financial manager
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ARCHER TECHNICOAT LTD

ATL (Archer Technicoat Ltd) is an internationally recognised expert in chemical vapour deposition (CVD) that provides coating development services, low-quantity production and CVD equipment for materials that frequently operate in extreme environments. Established in 1980, our materials catalogue covers a wide range. For fusion this includes SiC coatings and SiC-based composites, tritium permeation barrier coatings (rare earth oxides such as yttria and erbia) and tungsten coatings and tungsten-based composites for plasma-facing components. We specialise in developing materials at lab scale and upscaling production equipment to address the needs of industry. We also provide coatings and composites for aerospace, fission, semiconductors and other applications.

Calvin Prentice
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ASD

ASD is one of the UK's leading metal stockholders and processing suppliers, and a member of the Hierros Añón Group. Supported by global capabilities and a nationwide network, ASD supports the delivery of new nuclear power stations across the UK, whilst continuing to serve all existing operational nuclear sites and the NDA's decommissioning programme.

ASD provides a wide range of ferrous and non-ferrous products, including specialist alloys and stainless steel, sourced from accredited mill partners. Our extensive in-house processing capabilities, combined with deep technical expertise, enable us to deliver high-quality metal solutions that are efficient, fully traceable and aligned to the stringent standards required by the nuclear industry.

Nuclear safety underpins all activities, with robust processes covering CFSI management, cross-contamination control, rigorous quality testing and full supply chain tracebility. Through its dedicated nuclear team and specialist capabilities, ASD understands the complex requirements of the nuclear sector and is equipped to meet them.

Andrew Breeze
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ASSYSTEM

Assystem is ranked among the world's top three independent nuclear engineering leaders. With over 60 years' experience in highly regulated sectors, the company supports public and industrial stakeholders in delivering complex, strategic infrastructure projects with stringent safety and security requirements.

Assystem brings together 8,000 experts across 13 countries and operates throughout the entire project lifecycle, providing engineering, project management and digital solutions.

A key player in the development of fusion energy technologies, Assystem holds major contracts supporting UK fusion projects including STEP and JET, and international programmes including ITER, where it has been the architect engineer since 2005, and DEMO. Assystem is also actively contributing to innovative projects within the private fusion sector.

Emily Haslam
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ASTRAL SYSTEMS

Astral Systems is defining the next era of high-energy fusion neutron production. By marrying an industrially proven reactor architecture with breakthrough physics, we have developed the world's first multi-state fusion device. The result is a compact system that delivers high neutron flux, exceptional performance and operational lifetime for demanding applications.

We are accelerating the fusion-energy industry by supporting critical R&D and scaling medical isotope production. Having logged hundreds of hours of tritium breeder blanket irradiation since early 2025, we have demonstrated the reliability of our technology.

Our systems are now running in Bristol, and we are booking deuterium-deuterium (DD) and deuterium-tritium (DT) irradiation campaigns for 2026. This year, we're pushing further to launch the world's highest-flux, continuously operating DT fusion irradiation facility, with first commercial reactor deliveries beginning this summer.

Talmon Firestone
CEO
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> **"The Fusion Cluster has been leading the way when it comes to bringing together global fusion businesses with the same overarching vision of commercialising fusion energy."**
>
> **Jonathan Musgrove, Chief operating officer, Oxford Sigma**

ATG SCIENTIFIC

A specialist in laboratory products and equipment solutions, including noise reducing enclosures and gas blending/mixing instruments.

Andrew Graham
Director
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atgscientific.co.uk

ATKINSRÉALIS

AtkinsRéalis is a global engineering and project management organisation committed to advancing the next generation of clean energy. We bring people, data, and technology together to transform complex infrastructure and energy systems worldwide. Working with industry partners, clients, and our global network of consultants, designers, engineers, and project managers, we aim to create a more sustainable future for our planet and its people. We are committed to partnering with fusion developers worldwide to advance practical, integrated, and affordable solutions that bring fusion power closer to commercial reality.

Since 2010, AtkinsRéalis has helped shape some of the world's most significant fusion programmes. From ITER and UKAEA programmes to rapidly progressing private developers in Europe and North America. Our work spans technology development, plant-level systems engineering, site and facility design, architectural services, and integrated whole-plant solutions.

Our vision is to play a central role in developing and proving viable fusion technologies, qualifying key fuel-cycle and balance-of-plant systems, and integrating complex systems together into safe, functional, and commercially credible power plants. Our global perspective and multidisciplinary capability support the first generation of pilot plants and the long-term commercialisation of fusion energy.

Agnes Auledas
Fusion business development manager
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www.atkinsrealis.com/en/engineering-better-future/beyond-engineering/from-concept-to-commercialisation

ATLED ENGINEERING

Atled Engineering specialises in high-temperature superconductors (HTS), providing engineering services in electromagnetic and thermal finite element modeling and analysis of HTS devices. Our expertise includes steady-state and transient modelling, quench and AC losses, feasibility studies, performance analyses and prediction of HTS device behaviour. We strongly focus on second-generation REBCO HTS, a key enabler for compact fusion machines.

Tara Benkel
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BALFOUR BEATTY

Balfour Beatty is a 100-year-old UK contractor that has engaged in the construction of energy projects during its history, including fission power stations. This work commenced with Berkeley Power Station in the 1950s, is currently involved at Hinkley Point C and preparing for Sizewell C. We have also been building a variety of facilities to accommodate or process legacy nuclear waste at Sellafield over the last 40 years. Whilst we have no fusion expertise, we are keen to deploy our skills in the construction of fusion plants.

Andrew Nash
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BE4FUSION

With more than 35 years' experience in beryllium and specialty materials, Be4Fusion provide expertise in high-performance materials for demanding applications in fusion, fission, and opto-mechanical systems.

Alongside our technical capability, we bring over 30 years of international business experience, working with customers across six continents.

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BILFINGER

Bilfinger operates worldwide and provides nuclear automation, engineering and decommissioning services as well as cryogenics and superconducting magnet systems.

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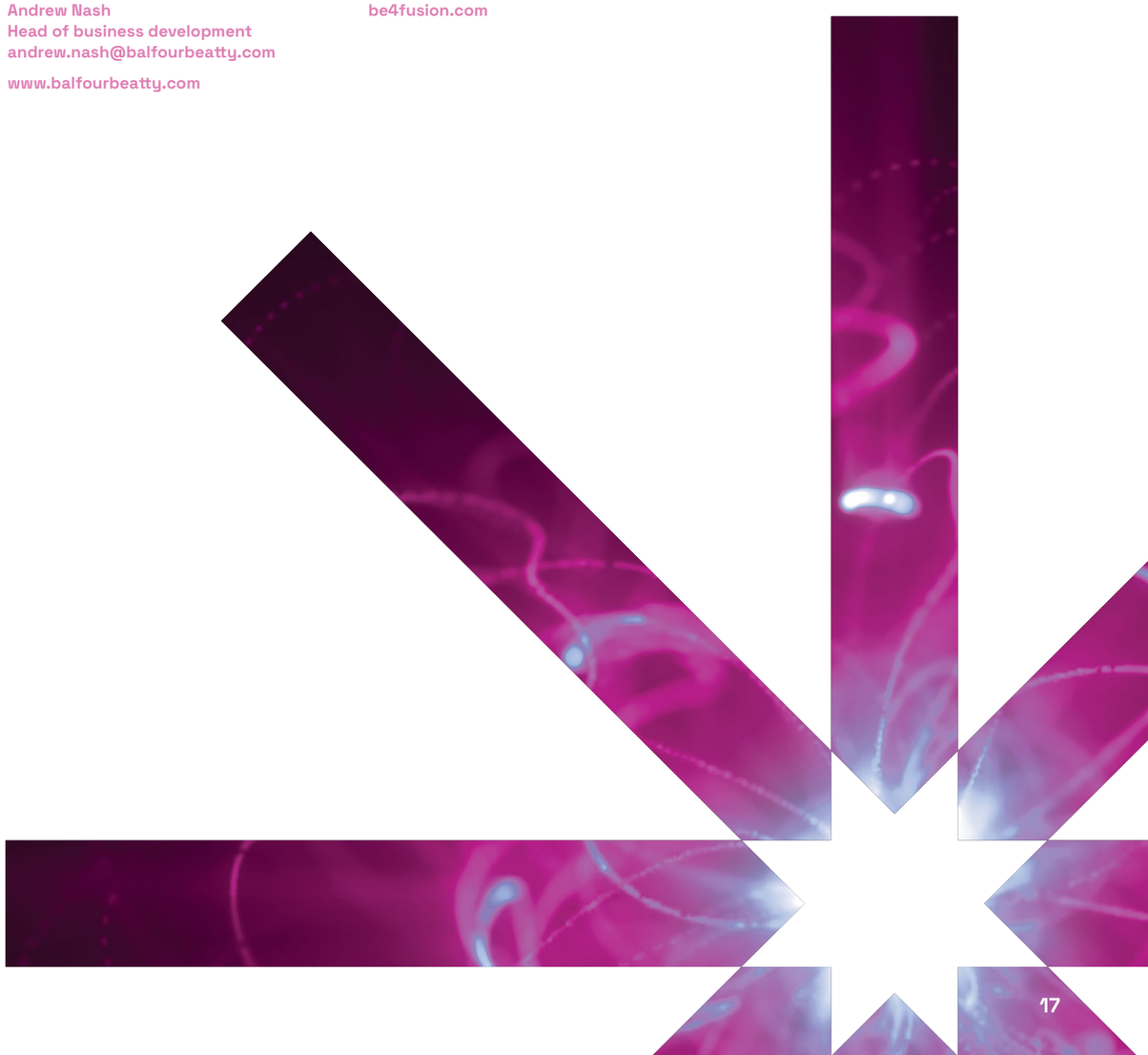
www.bilfinger.com



BROWN MCFARLANE

Brown McFarlane is one of the UK's leading independent steel stockholders and processors, supporting sectors including structural and construction, quarry and mining, oil and gas, petrochem, offshore, marine and nuclear. Our inventory is complemented by in-house processing, from oxy gas profiling of plates up to 300 mm thick, Hy-Def plasma, laser and waterjet cutting, gas drilling and contour weld preparation, alongside CNC machining services including milling, turning, slotting, threading and press braking.

We source materials from reputable and accredited steel mills across Western Europe, enabling us to to deliver quality-assured, cost-effective metal solutions. Our ISO accreditations include ISO 9001, ISO 18001, ISO 45001, Cyber Essentials Plus and JOSCAR. Our mission is to collaborate together to ensure that we develop beneficial and rewarding business partnerships.

Mike Beard
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BURGES SALMON

Burges Salmon is a UK law firm with leading expertise in the fusion sector. We advise on the STEP project in the UK and support several fusion start-ups with their technology. Our lawyers participate in the International Nuclear Law Association and Nuclear Industry Association fusion groups.

Our partner Ian Salter is an invited member of the International Group of Legal Experts on Fusion Energy (FELEX), a small group of leading lawyers from international agencies, fusion companies, regulators and law firms. FELEX provides thought leadership, legal and regulatory expertise and guidance regarding the development of fusion energy and emerging international law.

We bring extensive experience across UK nuclear sites and supply chains to the fusion industry, recognising the parallels and distinctions with traditional nuclear. We advise on strategy, project development, corporate structures, financing, siting, planning, supply chain, commercial and construction contracts, intellectual property, procurement and subsidy control. We also offer guidance on UK fusion regulation, international law, sanctions, export controls, and regulatory justification.

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BUSCH GROUP

We are Pfeiffer Vacuum+Fab Solutions, part of the Busch Group, delivering advanced vacuum pumps, integrated systems, accessories and services, including custom-engineered solutions drawing on more than 135 years of vacuum expertise. As a certified ITER supplier, we provide high-performance vacuum technologies for demanding industrial, analytical, research, and fusion applications.

Our range covers laboratory to industrial-scale systems, and pressures from rough vacuum to ultra-high vacuum. It includes tritium-compatible dry vacuum pumps, all-metal sealed turbopumps, and dry pumps for cryogenic helium recirculation systems, specifically engineered for complex and sensitive gas environments.

Our advanced vacuum technologies enable fusion research, semiconductor manufacturing, coating processes, analytical instrumentation, data storage, and other high-precision industrial applications worldwide.

Frank Bromley
Business development manager (science)
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www.pfeiffervacuum.com/global/en/

> **"Through The Fusion Cluster we've strengthened our network within the nuclear sector and developed relationships that are supporting our long-term growth."**
>
> **Oliver Lowe, Sales director, Lowe Stillages and Cages**

THE FUSION CLUSTER

C3 COMMUNICATIONS

We are C3 Communications, a consultancy specialising in strategic communications, community engagement and stakeholder consultation for major infrastructure and complex projects.

We support clients through all stages of project development, from concept and planning through public consultation and delivery, focusing on effective messaging, stakeholder relations and corporate communications.

Our services include siting strategies, public consultations aligned with regulatory requirements (including Development Consent Orders), internal and corporate communications, engagement strategy development and execution, and media and public relations support.

We draw on experience across sectors and projects to deliver tailored engagement in contentious and highly regulated environments, helping clients build positive stakeholder relationships and meet project goals. Incorporated in 2023, we operate with a small specialised team based in Wales.

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CAELUS

CAELUS is a specialised nuclear AI company supporting organisations in highly regulated sectors such as nuclear, space, maritime and defense. By combining AI/ML, HPC/QC, BIM/GIS, GenAI, IoT, robotics and other Industry 4.0/5.0 technologies, we help ensure on-time, on-budget delivery of new nuclear projects worldwide.

Our flagship CAELUS Ecosystem provides a unified AI-powered software suite for the design, license, build-repeat of new nuclear installations, with end-to-end capabilities for engineering intelligence, regulatory alignment, project orchestration, and lifecycle documentation.

In addition to software, we offer programmes, services, and strategic AI enablement, positioning ourselves as a partner for nuclear companies seeking to integrate robust, secure, and auditable AI into their technical, operational, research and managerial processes.

Through this combined offering, we provide the AI-native digital backbone to support confident research, planning and execution across the lifecycle of fusion and fission systems.

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CAIRNHILL STRUCTURES

Cairnhill Structures has been providing steel solutions to the power industry for over 20 years, both in the UK and internationally. In that time, we have built an excellent reputation within the industry, based on proven experience and our extensive knowledge of power station refurbishment. We provide design, fabrication, welding, machining and installation of structural steelwork.

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CAMBRIDGE MULTIPHYSICS

Cambridge Multiphysics is developing a range of application-specific software for tokamaks, stellarators and inertial devices, supporting both plasma and engineering simulations.
Our unique computational multiphysics approach can solve problems involving any combination of all four states of matter interacting at extreme conditions. By simultaneously solving the underlying equations on a single computational grid, our approach avoids the use of co-simulation.

Our products are delivered via a full-stack, enterprise-grade, cloud-based (AWS) platform, enabling 24/7 user access from any device. A menu-driven, application-specific front end allows non-specialists to use the software, extending advanced simulation beyond a few specialists to many engineers.

Integrated data science tools provide sensitivity analysis, uncertainty quantification and multi-objective optimisation, while high-fidelity numerical simulations generate synthetic data sets to train AI where real-world data is unavailable. This combination positions us to expand into complementary AI/ML markets.

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CAPULA

Capula is a UK-based engineering and technology company specialising in advanced systems integration, industrial automation, and digital transformation for highly regulated, mission critical industries. With over 50 years' experience in nuclear and energy sectors, we work with clients to improve operational performance, safety, and efficiency across complex energy and industrial environments.

Our expertise spans the design and integration of advanced control systems, including SCADA and safety systems; modernising and optimising industrial assets using digital technologies to improve performance and support long term asset management; cybersecurity solutions that protect industrial control systems from threats and ensure safety and regulatory compliance; and energy and infrastructure projects covering nuclear, energy networks, power generation, water, renewables and other regulated sectors.

We also design, engineer, and implement real time automation systems, including bespoke control panels and system architectures.

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CARBOLITE

Carbolite brings extensive thermal engineering expertise to the fusion energy sector, supporting both research and industrial-scale development. We specialise in the design and manufacture of high-temperature furnaces and ovens, with capabilities from ambient to 3000°C, making these solutions well suited to the extreme material demands associated with fusion technologies. Our equipment is widely used in advanced materials processing, including the development and testing of ceramics, metals, and composites required for plasma-facing components and structural elements in fusion reactors.
We offer a range of standard, modified and fully bespoke systems, with experience in working to stringent quality standards.

A strong emphasis is placed on precise temperature control, uniformity and reproducibility, enabling reliable simulation of fusion-relevant environments. These solutions support key processes such as heat treatment, sintering, annealing and materials characterisation, critical to improving performance and durability under intense thermal and radiation conditions.

Custom-engineered systems are available for specific fusion applications, developed in collaboration with research institutions and industry partners. Our experience across nuclear energy, defence research and industrial facilities underpins the delivery of robust solutions from concept through to installation and servicing.

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CENTRONIC

Centronic is a UK-based technology company specialising in radiation sensor solutions for photonic and ionising radiation measurement. Our products include gas-filled detectors for the nuclear fission and fusion energy markets, silicon photodiodes, Geiger-Müller tubes and coil-wound detectors.

Our specialist UK facilities feature assembly cleanrooms, welding, coating processes and precision machining. We are supported by an experienced management team and operate to ISO 9001 and ISO 14001 quality and environmental standards with sector-specific certifications for key nuclear, aerospace and military customers.

Since 2024, Centronic has been part of the Exosens Group which develops innovative amplification, detection and imaging technologies.

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CFMS

The Centre for Modelling and Simulation (CFMS) is an independent digital engineering consultancy providing technical expertise to help organisations create better solutions by pioneering new approaches to product development. With a full portfolio of digital capabilities, including design and analysis services, consultancy and IT infrastructure, CFMS uses digital innovation to help develop more effective engineering solutions across industrial sectors critical to the UK economy.

Working with commercial and research organisations of all sizes, CFMS is at the forefront of scientific and engineering development. Our experts in model-based engineering, data science, and advanced simulation and computing use digital tools to challenge the performance of commercially-available tools, and provide balanced opinions on how to optimise designs and processes, resulting in better productivity and lower costs. Our projects include: automated designs to improve operational efficiency; simulating real-world events to optimise defences, saving millions in construction costs; optimised production-line inspection using artificial intelligence to improve quality.

CFMS collaborates across industry, academia and research organisations, including research projects funded through Aerospace Technology Institute, Advanced Propulsion Centre, i3P, FlyZero, WECA and more.

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COMSOL

COMSOL is a provider of simulation software for product design, engineering, and research in technical enterprises, labs, and universities. COMSOL Multiphysics is an integrated environment for creating physics-based models and simulation applications. Optional add-on modules add discipline-specific tools for mechanical, fluid, electromagnetics, and chemical simulations, plus CAD interoperability. Specifically in the field of fusion, areas of use include: electromagnetic coils (tokamaks); superconductors; magnetohydrodynamics (liquid metal); and system heat transfer control and effects, including thermal structural stress.

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"After several years supporting the fusion supply chain, we've now secured our first orders — made possible through our membership of The Fusion Cluster."

Lee Nicklin, Business development director, Steel Dynamics UK

COMPANY DIRECTORY

FUSION PRIME

Commonwealth Fusion Systems

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Commonwealth Fusion Systems (CFS) is the world's largest and leading private fusion company. Since our founding in 2018, we have raised almost $3 billion, the most in private funding of any fusion company worldwide.

With more than 1,000 employees across science,technology, engineering, skilled trades, and professional services, we are assembling SPARC® , our marquee fusion demonstration project, which will generate net energy in 2027. This paves the way to build ARC™, the world's first fusion power plant, in Virginia, which will be on the grid in the early 2030s.

To support the development and construction of its projects, we have formed an international network of R&D collaborations with academia, national labs and industry, and pioneered a global supply chain of more than 1,000 suppliers across 32 countries. Our Devens, Massachusetts headquarters hosts a proprietary advanced manufacturing facility producing the world's strongest fusion magnets, each one capable of lifting a medium-sized aircraft carrier.

COPENHAGEN ATOMICS

Copenhagen Atomics is developing a thorium molten salt reactor and manufacturing enriched lithium and highly purified salts at industrial scale, along with affiliated test infrastructure and systems.

Over the past 12 years, we have developed cutting-edge technology, built a full-scale non-fission prototype, and accumulated more the 350 test years on our infrastructure. These capabilities are offered to the fusion industry, primarily supporting the Li-6 and FLiBe salt supply chains.

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CCO
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CREATEC

Createc is an applied research and technology organisation with core capabilities in imaging/sensing, robotics and radiometrics. Createc has patented technology associated with a unique capability to map radiation in 3D using a range of tools and software processing. At Createc, we make technology happen.
We're the team behind some of the world's most advanced applications of emerging sensor technology, robotics, and software. By collaborating with both academia and industry, we are uniquely able to uncover, shape and bring to life innovative ideas to solve real-world problems. Createc operates primarily at Technology Readiness Level (TRL) 4-8. Typically, TRL 9 requires an industrial partner to develop a fit-for-market product. Createc has on occasion taken this step itself, for example self-funding the N-Visage range of gamma radiation mapping hardware and software. Createc has a track record of industry firsts including deploying on-site UAVs in a nuclear radiation contaminated area and open platform robotics systems integration. The main products and services are research, development, and consultancy in the fields of sensing, radiometrics and robotics; systems and software integration of sensors and robotics; ready-to-use radiometric instruments and software; ready-to-use robotics and sensing technologies.

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CRITICAL SOFTWARE

We are dedicated to the reliability and excellence that have become our hallmarks, maintaining our ambition of tackling the world's most demanding technological challenges transforming the world into a better and safer place. Established in 1998, Critical Software provides solutions for safety, mission and business-critical applications. We help to ensure compliance with the most demanding quality standards for software safety, performance, and reliability. With offices in the UK, Portugal, Germany, and US, our 1200+ engineering team helps transform industries across the globe on land, sea, in the sky and beyond. Adding to our heritage of software engineering in the energy, aerospace, transportation, industry and automation, and medical devices sectors, we count more than 30 ESA space missions that use our software. We also work on the largest scientific endeavours of our time, including the Square Kilometre Array (SKA), European Southern Observatory (ESO), European Spallation Source (ESS) and International Thermonuclear Experimental Reactor (ITER). Our critical software fields of expertise include software and systems engineering, verification and validation, real-time operating systems, simulation, safety, scientific computing, data analytics, machine learning, cyber security. For fusion we currently work on: distributed data access, communication and control systems, and embedded software systems.

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"A lovely community aiming to solve our current energy issues onto a bright future."

Ansaldo Nuclear

CULHAM INNOVATION CENTRE

Located at the heart of one of the UK's most successful science and technology campuses, Culham Innovation Centre offers a unique blend of office, workshop and laboratory spaces, all within a single, supportive hub for ambitious science and tech businesses.

Our community brings together innovators working across fusion, AI, robotics, clean energy, advanced materials and life sciences, and we offer business support to all our tenants.

Supported by Oxford Innovation Space, we provide flexible facilities, dedicated reception services, meeting rooms, kitchen amenities and access to the wider Culham Campus. Our secure 24/7 environment enables start-ups and scale-ups to thrive at the heart of a deep-tech ecosystem giving businesses a well-connected, future-focused foundation to grow.

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DBD INTERNATIONAL

DBD International has been providing specialist engineering, technical, programme, safety and modelling services for over 20 years. We help clients mitigate risk, reduce cost and schedule, and deliver positive change across major nuclear engineering, construction, decommissioning and waste clean-up projects. We work across the nuclear industry with government and corporate clients across the world's civil nuclear and defence landscape.

We have played a key role in advancing the UK's fusion energy ambitions. We supported the H3AT programme from its initial business case through concept design to system integration for detailed design. We also developed a fuel cycle model for ITER and have secondees in the South of France to support radioactive waste management. We have also engaged with the STEP programme and are an approved framework supplier of engineering services to UKAEA at Culham.

Through these projects, we continue to drive innovation in fusion energy, combining technical excellence with practical delivery to help power a cleaner, more sustainable future. With a growing international footprint, we operate from offices in the UK (Birchwood Park, Warrington, and Culham, Oxford) and across the United States.

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DIGILAB

digiLab is a Trustworthy AI and machine learning company providing a no-code machine learning platform called The Uncertainty Engine, alongside collaborative support on first-of-a-kind projects and machine learning training via our academy.

We offer a wide range of solutions to accelerate and enhance fusion engineering workflows; including experiment design, optimisation, sensor qualification, advanced data analysis, and digital twinning.

Our expertise in probabilistic machine learning and uncertainty quantification ensures that we can assess the reliability of predictions and account for variability, randomness, and misspecification in models. This give clients the level of confidence they can have in the model's predictions, so they can make better informed decisions.

We have extensive experience across the fusion industry, from plasma science to the fuel cycle, engineering, operations, and control. We always welcome a challenge and are keen to explore new innovative solutions to accelerate the realisation of fusion energy.

Kate Whitefoot
B2B marketing manager
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> **"Being part of The Fusion Cluster has enabled us to engage with people across the fusion industry and support a more connected and growing UK fusion ecosystem."**
>
> **Agnes Auledas, Fusion business development manager, AtkinsRéalis**

DYNAMIC MINDS RECRUITMENT

At Dynamic Minds, we connect pioneering fusion organisations with the engineers and scientists capable of delivering complex projects under pressure. We bridge the gap between experience and delivery, drawing on a deep talent network across the fission and fusion ecosystems.

We understand the nuances of the sector, from superconducting magnet design and tritium breeding to the regulatory hurdles of new nuclear. Our approach prioritises long-term industry health over short term wins. We partner closely with clients to ensure every hire is both a cultural and technical catalyst, delivering a recruitment process that is transparent, ethical and aligned with the missions we support.

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DYNEX SEMICONDUCTOR

We specialise in the design, development, and manufacture of cutting-edge power semiconductor solutions, offering both bespoke co-development options for partners and a range of fully validated pre-specified products. Our product portfolio includes a comprehensive selection of bipolar thyristors, IGBTs, and power assemblies.

With our UK-based fabrication line in Lincoln and a vertically integrated supply chain, we minimise supply risks and ensure reliability. Our end-to-end services encompass design, development, simulation, testing, and manufacturing, all carried out in-house to deliver high-quality, tailored solutions.

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EGB ENGINEERING

EGB Engineering provides expertise in the field of power. Our research into nuclear energy puts our knowledge and expertise at the forefront of clean sustainable energy for next generation civil nuclear power plants. We are knowledge-led and collaborative. We focus on industry and academia, and predominantly research, conceptualise, design and develop cleaner and sustainable solutions for various sectors including nuclear. Our capabilities in fusion include process and mechanical engineering, materials sciences and computer-based modelling and simulation. These capabilities have been used to deliver projects for UKAEA's STEP programme. Our in-house tool, HYPER-ION, aims to increase the understanding of nuclear power plant (NPP) design by using a bespoke in-house modelling and simulation solution. HYPER-ION bridges the technical, economic and risk gaps when analysing a NPP by using defined algorithms that represent various cycle configurations and operations. They aid the decision-making process of choosing the best economic plant configuration. The modelling and simulation aims to provide a better understanding of how critical parameters affect the overall design and cost of the plant. This allows the NPP to be optimised during the initial conceptual phases, to reduce costs and improve efficiency.

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ELEMENT SIX

Element Six (E6) is a global leader in the design, development and production of synthetic diamond and tungsten carbide supermaterials. Since 1946, our mission has been to deliver competitive advantage and extreme performance through the innovative solutions enabled by these materials. E6's technical expertise, global presence and scaling capabilities make it the ideal partner for fusion developers requiring materials capable of withstanding extreme conditions of heat and neutron irradiation. Due to its radiation hardness, fast response, and high gamma ray and temperature insensitivities, our electronic grade chemical vapour deposition (CVD) diamond is used in neutron detectors, allowing neutrons from both deuterium-deuterium and deuterium-tritium fusion to be detected and distinguished from the background. For magnetic confinement devices, we supply diamond microwave transmission windows for electron cyclotron heating systems. These utilise diamond's low loss, stable permittivity and outstanding thermal conductivity. In addition, E6 has the capabilities to produce tungsten carbide with low activation and excellent thermomechanical properties for neutron shielding.

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ELITE MANUFACTURING SOLUTIONS

Elite Manufacturing Solutions is an ISO 9001-approved and carbon neutral-accredited supplier of tantalum, niobium, tungsten and molybdenum in all forms, including round bar, sheet, plate and foil. In addition to our raw material, we also offer full subcontract machining services for refractory metals, delivering machined and fabricated parts to exacting drawings and specifications. Our clients include internationally recognised Blue Chip and OEM companies, and we combine material expertise with precision manufacturing to meet demanding technical specifications.

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EOS ATOMICS

Eos Atomics is building next-generation power plant-grade neutral beam injection (NBI) systems for magnetic fusion developers. Our team applies breakthroughs in ion sources, material science, and laser cavities to create compact NBI systems capable of pulsed or continuous operation. Our systems are designed to cut costs by over 50 per cent, more than double wall-plug efficiency, and reduce footprint by over three times supporting more efficient and scalable fusion devices.

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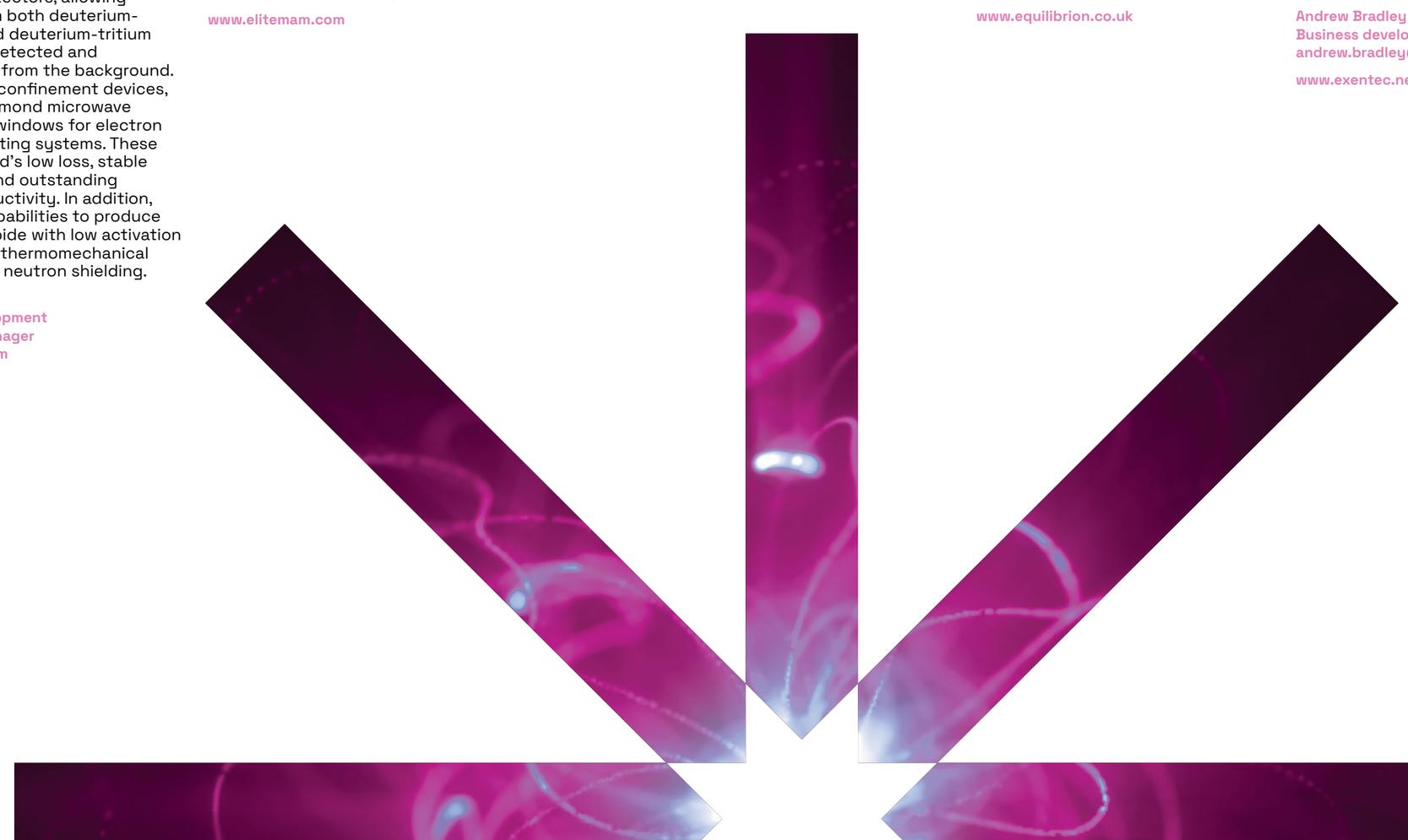

EQUILIBRION

Equilibrion is a consultancy and project development business founded on the belief that fusion and fission can create a safe, prosperous and equitable society free from the challenges of climate change. We specialise in expanding the use of nuclear technology beyond electricity, helping deliver net-zero solutions in transport, industry and heat through the production of hydrogen, synthetic fuels and direct heat. Our experience spans securing and delivering innovation to government-funded programmes focused on advanced technologies and the practical applications of nuclear energy.

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EXENTEC HARGREAVES

Exentec Hargreaves is a UK contractor specialising in safety-critical HVAC systems, delivering projects from concept to commissioning. With extensive experience in heating, ventilation and air conditioning for nuclear facilities, we have supported the construction and decommissioning of ventilation and containment systems across the UK since the introduction of nuclear power.

Our work spans major sites including Sellafield, Dounreay, Hinkley Point, Keadby, Sizewell, Hunterston and international projects such as Chernobyl. We are proud to support and contribute to the delivery of Great British Nuclear, maintaining a strong nuclear safety culture at the heart of our business.

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FEINN

FEInn – Frontiers in Energy Innovations GmbH - is a specialist consultancy dedicated to shaping the sustainable energy landscape of tomorrow. We support organisations, startups, investors, governments, and research institutions in navigating the complex transition toward clean, future-proof energy systems with a strong focus on nuclear fusion and emerging technologies.

Our services include strategic planning and advisory, European funding and collaboration support, research and development guidance, and training and education programmes tailored to the needs of decision-makers, innovators, and industry stakeholders. We help clients identify opportunities, develop feasible roadmaps, prepare competitive proposals for EU research funding, and build effective partnership networks.

With deep expertise in fusion research, policy, and innovation ecosystems, FEInn also offers regulatory insight and advocacy support to advance favourable frameworks for fusion energy and broader low-carbon solutions.

Driven by a commitment to excellence and sustainable impact, FEInn empowers organisations to lead the energy transformation with confidence, innovation, and strategic insight.

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COMPANY DIRECTORY

FUSION PRIME

Firefly Fusion

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Firefly Fusion develops compact tokamak reactors to enable the commercial deployment of fusion energy in Europe. We focus on advanced tokamak design, integrating "negative triangularity plasma shaping" and high-temperature superconducting (HTS) magnet technology.

Our core capability lies in translating recent plasma physics advances into power-plant-relevant engineering solutions. Negative triangularity helps suppress edge instabilities and improve heat exhaust management, tackling key challenges in plasma stability and material performance.

Combined with high-field HTS magnets, we design compact, high-performance tokamaks with improved capital efficiency. By leveraging Europe's established tokamak supply chain and research infrastructure, Firefly brings advanced reactor design capabilities, system integration expertise, and proprietary plasma control know-how to the emerging fusion industry.

FOREPOINT

Forepoint is a creative consultancy with 30 years' experience in delivering strategic communications to critical sectors including nuclear, defence and energy.

Our nuclear experience has been gained working with the Nuclear Decommissioning Authority (NDA), Sellafield, Nuclear Waste Services, Nuclear Transport solutions and other NDA Group subsidiaries as well as UKNNL, AWE and BAE Systems.

Our expertise covers communications strategy, brand and positioning, corporate reporting, website creation and build, community and public engagement, social impact campaigns and internal communications.

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FRAMATOME

Framatome's strong technical competences gained in the nuclear industry and its expertise in UK and international regulatory environments also benefit fusion projects. Framatome has the capacity to perform and integrate complex projects with international partners in the areas of technological manufacturing. We are also a services provider in nuclear-like scopes. We have comprehensive expertise and laboratory capabilities for thermal-hydraulic and component testing, as well as for materials, corrosion, welding, radiochemical analyses, and qualification engineering. Framatome supports designers and operators, as well as system and equipment suppliers in their R&D and project delivery activities.

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FRAZER-NASH CONSULTANCY

Frazer-Nash, a KBR company, is a leading systems, engineering and technology organisation dedicated to delivering innovative engineering and technology solutions to make lives safe, secure, sustainable, and affordable. We collaborate closely with clients and supply chain partners, across three core areas: developing and maturing fusion power plant design, designing and developing fusion-enabling technologies, and applying cross-sector expertise to support effective decision-making.
As a tier 1 supplier to the UK Atomic Energy Authority's Engineering Design Services (EDS) Embedded Engineering Resource Framework (EERF) and Test Rig Design & Build Framework, we work with tier 2 supply chain partners – including academia, research organisations, SMEs and industry – to tackle challenges in materials, manufacturing, concept and design. We also work with all major fusion developers in the UK and many in North America and Europe, bringing extensive experience to support new fusion developers as they progress towards commercialisation. Our commitment to the future of fusion energy is reflected in our broader nuclear sector growth strategy, which focuses on investment, innovation, and the development of our people and capabilities.

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kbr.foleon.com/frazer-nash/fusion/

COMPANY DIRECTORY

FUSION PRIME

First Light Fusion

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Monty Rakusen

First Light Fusion is the UK's inertial fusion energy (IFE) company and a spin-out from the University of Oxford. We provide sovereign UK capability spanning in-house AI-driven simulation codes, precision manufacturing, and unique experimental platforms that deliver extreme-physics experiments at a fraction of the cost of US national laboratories.

Our FLARE power plant concept, based on inertial fusion, launched last year to international acclaim. Our design sets out a credible path to high-gain fast ignition, an approach originally pioneered in Europe by the UK. By combining state-of-the-art, native AI design tools with experimentally validated target concepts, we are accelerating progress against the five core technical challenges of delivering fusion energy. FLARE is being developed in collaboration with a growing cohort of partners. The unique capabilities we have developed for fusion are now also supporting the space and defence sectors, as well as the wider fusion ecosystem.

FREEMELT

Freemelt produces 3D printers for high-end materials such as tungsten and other refractories. We deliver 3D printers for materials research and for manufacturing at scale.
We have carried out feasibility studies and supplied 3D printers to UK Atomic Energy Authority, and we are currently developing plasma-facing components for Fusion for Energy (F4E).

We can deliver plasma-facing components such as tiles and mono-blocks at very competitive cost. More complex assemblies and other materials are also possible to develop.

We have personnel in the UK and perform materials development. Where required, we can set-up local manufacturing to support fusion supply chains.

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FUJIKURA

Fujikura is a major supplier of rare-earth barium copper oxide (ReBCO) high-temperature superconductor tapes. We pioneered the ion beam assisted deposition (IBAD) and pulsed laser deposition (PLD) manufacturing processes in the early 1990s. This work was recognised with an IEEE award to Yasuhiro Iijima, a fellow in our superconductor research department. We make a range of high quality ReBCO tapes for fusion and high-field applications.
More details can be found at www.europe.fujikura.com/markets/industrial/superconductors/

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FUSION ENERGY COUNCIL OF CANADA

The Fusion Energy Council of Canada (FECC) is a national voice for the development and uses of fusion energy in Canada. Based on objective, evidence-based assessments, we advocate for a national fusion energy strategy that strengthens collaboration between advanced research organisations and public- and private-sector partners across the fusion energy ecosystem.

Our priority areas include novel fusion reactors, fusion fuel cycle technologies, specialty lasers, at-scale light isotope separation processes, tritium production and handling, advanced materials, artificial intelligence, and fusion regulations.

We also promote workforce development across the full range of disciplines needed for fusion energy, including engineering, safety, regulations, policy, risk management, insurance, economics, and advancing public understanding.

Axel Meisen
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"The Fusion Cluster has been a valuable forum for bringing together businesses, researchers and innovators across the region. It has helped strengthen collaboration and highlighted the important role that advanced manufacturing and technology play in driving growth and opportunity in Greater Lincolnshire."

Dynex Semiconductor

COMPANY DIRECTORY

FUSION PRIME

Focused Energy

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Focused Energy is a German-US company founded in 2021 with locations in Austin, Texas, USA and Darmstadt, Germany. The company aims to use the best of both to develop fusion energy as a clean, reliable, and sustainable energy source for humankind based on modern laser technology.

Focused Energy seeks to demonstrate laser-based fusion energy by the end of this decade and a commercially-attractive, first power plant during the middle of the next decade.

Focused Energy improves on 30 years of laser fusion experiments by adding the proton fast ignition concept to reduce the required laser energy and improve the energy output. The company also uses modern 21st century laser technology to provide the required repetition rate and efficiency to match competing technologies with respect to the cost of electricity.

Among possible approaches to fusion energy, we regard our approach as the most credible. The founders and employees of Focused Energy are deeply embedded in the international fusion science and research community.

FUSION ENERGY INSIGHTS

Fusion Energy Insights provides independent intelligence and structured perspective for organisations shaping the future of fusion energy.

We exist to bring clarity and coherence to a fast-moving, technically complex industry. Through our quarterly publication, ongoing analysis and expert dialogue, we distil the developments that genuinely matter across science, policy and delivery.

Our work is written for decision-makers, not observers. For engineering, infrastructure and industrial firms evaluating fusion, we provide the context needed to understand where the sector is heading, what is changing, and where the real opportunities lie.

Subscribers gain access to the Fusion Energy Insights Quarterly, expert analysis and community discussions, providing a curated view of the global fusion landscape and helping them engage with confidence rather than react to headlines.

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FUSION ENERGY PARTNERS

The rapid evolution of commercial fusion—toward larger, more integrated, and more complex systems—now demands a broader and more coordinated range of expertise than any single individual can offer.

Fusion Energy Partners addresses this need by offering a comprehensive technical resource for organisations seeking strategic advice on fusion technologies. This includes support for investors, fusion companies, and other stakeholders navigating fusion-related challenges. Each FEP consultant brings deep subject-matter expertise as well as senior-level experience in fusion R&D decision making. Collectively, the team offers a nuanced understanding of the interdependencies among fusion-relevant technologies and the associated integration challenges.

We provide both high level strategic technical perspectives and detailed analysis across nearly all aspects of a fusion programme or project lifecycle - from initial concept development and detailed design through to commissioning, operations, and decommissioning.

Typical areas of engagement include technical due diligence to inform investment decisions, strategic assessment and monitoring of the fusion landscape, troubleshooting and problem resolution, design evaluation and review, and coaching and mentoring for senior technical leaders.

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FUSION ENGINEERING CDT

The UKAEA Centre for Doctoral Training in Fusion Engineering – the Fusion Engineering CDT – is a collaboration between four world-class universities – Birmingham, Liverpool, Manchester and Sheffield – alongside UK Atomic Energy Authority and the fusion supply chain. We train cohorts of engineering doctorate (EngD) students, recruiting about 30 STEM graduates each year into industrially nominated projects.

Our four-year EngD programme equips graduates with the knowledge and experience required for chartered engineer status, preparing technical leaders to design, build, operate and eventually decommission the STEP power plant at West Burton.

After an intensive 12-week multidisciplinary fusion engineering course, delivered by academics and industry, our students work with their industrial sponsor on research topics. Our EngD projects focus on mid-TRL R&D, providing a value-add route for academic-industrial collaboration through access to university research facilities and expertise.

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FUSION INDUSTRY ASSOCIATION

The Fusion Industry Association (FIA) is the leading voice of the global fusion industry, bringing the fusion community together to accelerate commercialisation. The FIA is a global trade association representing 46 fusion companies and more than 100 affiliate members, including suppliers, end-users, and nonprofit organisations. We combine scientific, policy, government, and communications expertise to support our members and advance the commercialisation of fusion energy worldwide.

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FUSION INDUSTRY SCHOOL

The Fusion Industry School supports the professional development of people entering the fusion industry with technical, engineering, scientific or management expertise but who do not have a background in fusion. Our courses offer a broad overview of fusion science, technology and engineering applications and include lectures, networking sessions, panel discussions and Q&As, as well as visits to UK Atomic Energy Authority's national fusion facilities. The programme is developed and run by the Fusion Centre for Doctoral Training and UKAEA, with advice and support from our partners in the fusion community.

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FUSION INSTRUMENTS

Fusion Instruments is a technology start-up based in Budapest that specialises in advanced diagnostics and electronics for scientific and industrial research. We design and build custom-built instrumentation from high-sensitivity, ultrafast detectors and high-speed data-acquisition systems to complete diagnostic solutions for fusion devices.

We are currently delivering radiation-tolerant hardware and a complex, real-time optical diagnostic system for ITER. Low-latency processing is implemented on FPGA, incorporating the latest advances in AI algorithms to enable fast, reliable decision-making in demanding environments.

Over the past decade, detectors and diagnostic solutions from Fusion Instruments have been installed on many of Europe's and Asia's leading fusion experiments, including MAST-U, JET, ASDEX Upgrade, Wendelstein 7-X, EAST and KSTAR.

From concept and simulation through prototyping and on-site support, we work closely with research institutes and private fusion partners to turn measurement challenges into robust, field-ready diagnostics.

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> "The Fusion Cluster gave us an opportunity to network and connect with the right partners."
>
> **Albert Tan, Managing director, Plasmate**

FUSIONX

FusionX is the leading source of data and insight on the commercialisation of fusion; an intermediator of relationships and partnership; and a facilitator for capital allocation to the fusion ecosystem.
FusionX works to accelerate the advance to commercialisation. We are respected as an independent champion of fusion – part of the market's infrastructure – but recognised as a constructive and analytical voice, not an uncritical cheerleader.

Our annual gathering, FusionX:Global, is fusion's biggest annual event. It and our broader series of events and meetings bring together the entire fusion ecosystem to explore the challenges and opportunities on the path to commericially-viable fusion, and to connect innovators, investors and others with opportunity.

FusionX members gain access to essential data and intelligence enabling them to identify risks and act on emerging opportunities across the sector, plus the news, and analysis needed to anticipate the sector's demands and engage effectively with key stakeholders.

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GLOBUS METAL POWDERS

Globus Metal Powders produces high-purity powdered metals with exceptionally low oxygen content and near-zero material carryover, atomised in argon for consistent batch-to-batch performance. Based in the UK, we use our vacuum inert gas atomisation technologyto supply materials for PM-HIP processes and develop bespoke alloys in-house through advanced materials science and metallurgical expertise.

Serving defence, aerospace, oil and gas, energy and nuclear industries, we are committed to improving the lifetime value and performance of our customers' components and systems. Conforming to AS9100 standard, we deliver high-performance innovative materials, through trusted partnerships in every material we create.

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GSF UK

GSF UK is a specialist cleaning and associated services company. We specialise in complex environments and constantly develop new methodologies to enable our clients to focus on their business rather than their facility.

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GVT GmbH & Co.KG

GVT GmbH & Co. KG, together with its complementary partner KBHF GmbH, was established as a spin-in company on the Karlsruhe Institute of Technology (KIT) campus. For more than 30 years, the company worked in close collaboration with KIT on the development and production of functional materials relevant to fusion blanket systems. Our work has focused on beryllium, beryllides, FLiBe, lead and lithium ceramics supporting research and development in fusion technology. Following the conculsion of this long-standing collaboration, the founder now offers expertise in these materials and their applications within fusion systems as a senior consultant.

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HAH SOFTWARE

HAH Software provides advanced design, engineering, process optimisation and IIoT solutions to organisations across aerospace, automotive, energy, pharmaceutical, chemical and manufacturing sectors. We develop simulation capabilities including digital twins, electrochemical and electromagnetic simulations, computer-aided engineering, and vehicle dynamics, using tools such as Elsyca, EMWorks, Hexagon and Randle Software. Our high-performance computing, built with Qarnot, supports sustainable, cloud-based simulation workflows, while our operational intelligence platform Vimana enables operational analytics and IIoTworkflow solutions.

By integrating these capabilities, we helping clients innovate faster, scale smarter, and operate more sustainably.

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HELIXOS

Helixos drives cleantech commercialisation through strategy, communications, and technical advisory, with a focus on nuclear energy and fusion. We support the entire journey of technology development and deployment - from ideas to impact - and optimise the relationship between people, technology, and nature.

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> **“The Fusion Cluster has been an important partner in our global mission to accelerate fusion along the path to commercialisation.”**
>
> **Stuart Allen, CEO, FusionX**

COMPANY DIRECTORY

FUSION PRIME

Gauss Fusion

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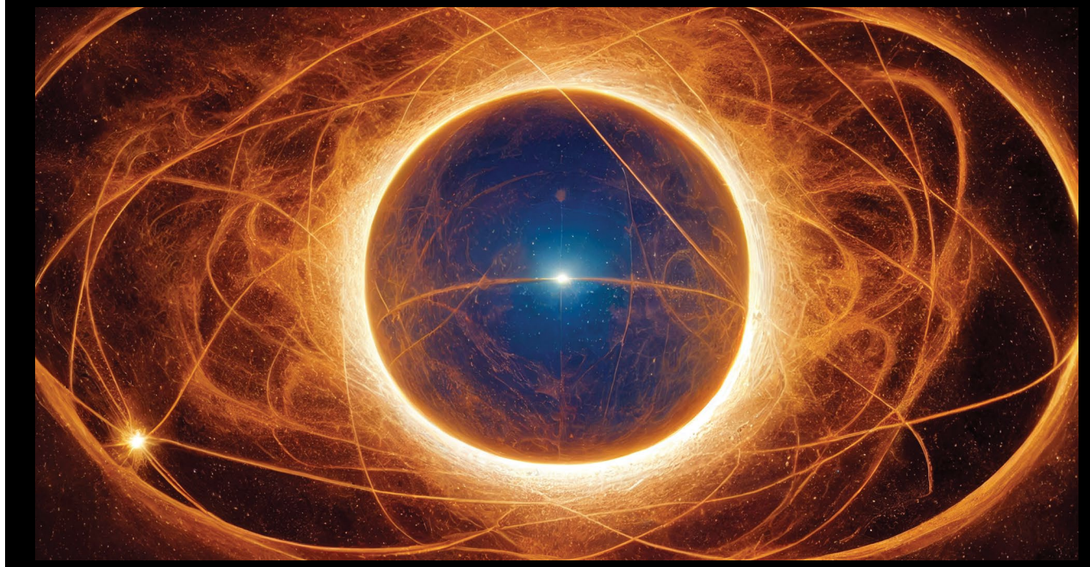

Gauss Fusion is committed to accelerating the industrialisation of fusion energy, making it scalable and turning it into reality in Europe. Founded in 2022 by private industrial companies from Germany, France, Italy, and Spain, we combine a unique European blend of cutting-edge scientific research with industrial expertise in fusion energy. We are playing a decisive role in shaping Europe’s sustainable and independent energy supply with stable prices and availability.

The founding partners bring decades of experience, deep expertise, and a proven track record in manufacturing advanced components and technologies for the fusion industry, as well as in delivering complex, large-scale scientific projects.

We also combine our entrepreneurial and technical know-how with the excellence of leading research institutes in Europe. We are closely connected to science, and collaborate with leading research institutions, including CERN, the Max Planck Institute for Plasma Physics, Karlsruhe Institute of Technology, ENEA, and TU Eindhoven.

COMPANY DIRECTORY

FUSION PRIME

General Fusion

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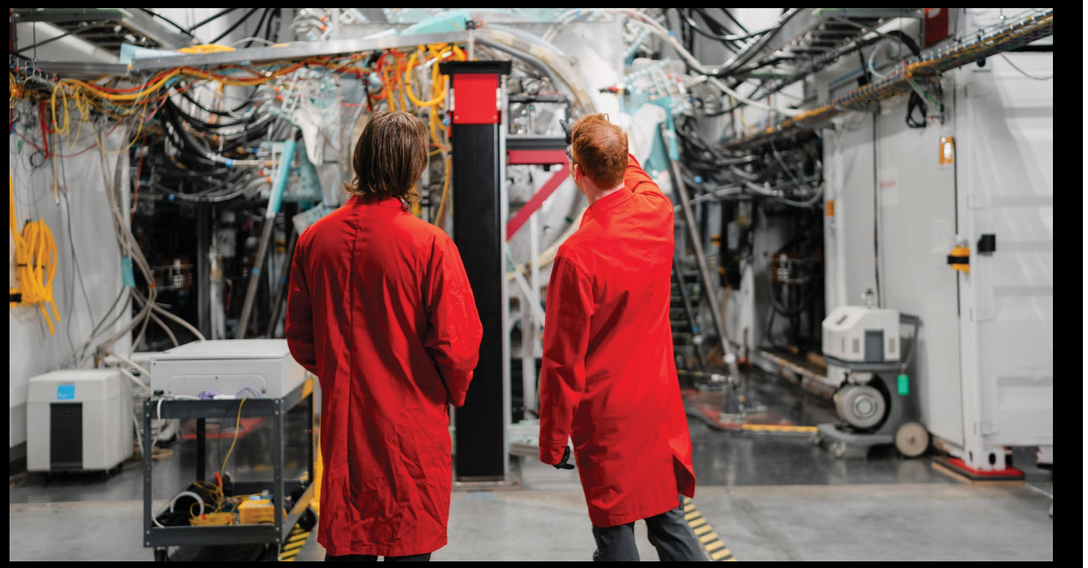

General Fusion is a leader in the fusion industry, developing uniquely practical magnetised target fusion technology that addresses the key barriers to commercialising fusion energy.

Our world-class team of scientists, engineers, and business leaders has a proven culture of execution, with more than 20 years of experience designing, building, operating, and scaling testbeds and prototypes. Today, General Fusion is one of only four private companies worldwide to have achieved and published meaningful, peer reviewed fusion results.

We are operating a world first, large scale magnetised target fusion demonstration machine called Lawson Machine 26. And we are advancing toward important technical milestones 1 keV, 10 keV, and the Lawson criterion, which are critical steps toward delivering practical fusion energy within the next decade.

HUTCHINSON ENGINEERING

Hutchinson is a UK-based engineering and fabrication partner delivering high-integrity steel structures for critical infrastructure projects across the UK and international markets. Founded in 1979, the family-owned business has grown from its petrochemical roots into a multi-sector manufacturer supporting industries including nuclear decommissioning, energy, and major infrastructure developments.

Operating across multiple UK facilities, Hutchinson provides end-to-end fabrication capability, combining structural design, advanced plate processing, machining, welding, and assembly with rigorous quality assurance and full material traceability. Maintaining strong in-house control over production enables the company to deliver consistent quality, reliability, and programme certainty for clients working in highly regulated and safety-critical environments.

Continuous investment in advanced manufacturing technologies, digital processes, and workforce development allows Hutchinson to scale production while maintaining the flexibility and precision required for complex engineering projects.

At the heart of Hutchinson is a people-first culture, with ongoing investment in apprenticeships, skills development, and long-term careers in engineering and manufacturing. Combining heritage, innovation, and collaboration, Hutchinson continues to support the infrastructure projects shaping the UK's industrial future.

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HYPERION MATERIALS & TECHNOLOGIES

Hyperion Materials & Technologies is a global leader in hard and super-hard materials, with over seven decades of experience developing and manufacturing cemented tungsten carbide, diamond, and cubic boron nitride. Our expertise positions us as a strong partner to develop and supply components suitable for fusion reactors at production scale.

Hyperion's advanced materials combine neutron shielding properties with the thermal and mechanical properties required in fusion, and their low-activation compositions support easier disposal and waste management when decommissioning the reactor at its end-of-life.

Through close collaboration between customers and our sales, product management and R&D teams, we develop custom solutions across the full supply chain, from the initial powder or crystal development to the manufacture of a finished component, making us a unique partner for the fusion industry.

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ICEOXFORD

ICE is a leading designer and manufacturer of high-performance cryogenic systems for the research community. We offer both wet and closed-loop systems for a wide range of low-temperature applications.

Using our key patented technologies, we achieve some of the highest cooling powers on the market, combined with rapid cool-down times and excellent temperature stability.

Each system can be fully customised to allow for optical access, magnet integration, sample manipulation and experimental wiring. We deliver high-quality products alongside outstanding customer support and excellent levels of personal service from our expert technical teams.

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IDOM

IDOM has developed more than 145 references relating to fusion activities at JET, STEP, ITER and IFMIF DONES among others. IDOM started work for ITER in 2007 with a civil and structural analysis contract. Three years later we began working as part of the Energhia Consortium in the role of “support to the owner”, reviewing the design and assessing compliance with the technical requirements of ITER. In the UK, we have been involved in several projects with UKAEA, collaborating in the engineering design services framework and fuel cycle framework as a tier 1 contractor. We have brought our skills in mechanical engineering (including structural analysis, material selection and manufacturability assessment); computer-based modelling and simulations (including stress analysis of STEP components using FE analysis codes, neutronics analysis and electromagnetic analysis of the magnet systems); power transmission and distribution; and control and instrumentation. Our highly professional team of engineers has a track record of successfully demonstrating their capabilities in fuel cycle, in-vessel components and materials in the area of research and development, design and engineering.

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INDIMAJ GROUP

Indimaj is a strategic advisory and research firm operating at the intersection of advanced energy, critical materials, and long-term industrial development. We specialise in fusion, next-generation materials systems, and cross-border industrial strategy, with a particular focus on the Middle East, Europe, and emerging markets.
Our core capabilities include techno-economic analysis, strategic market mapping, policy and regulatory insight, and ecosystem development. We work with governments, sovereign investors, research institutions, and industrial partners to identify where frontier energy technologies translate into viable industrial opportunities.

Indimaj adds value by bridging the gap between early-stage scientific innovation and real-world deployment. We provide structured analysis on materials demand, supply chain positioning, localisation strategy, and international collaboration pathways. Our approach combines deep technical understanding with commercial and geopolitical awareness, enabling clients to make informed, long-horizon decisions.

Our international network across academia, industry, and policy, enables clients to position themselves within the emerging global fusion and advanced materials ecosystem.

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INDUCHEM GROUP

Induchem Group has over 40 years’ experience providing high-performance process equipment, services and engineered solutions for demanding industries. Our UK sites include Congleton, Leigh, Falkirk and Cleator Moor, which supports Sellafield. We also operate seven facilities across Ireland and Denmark. We offer a complete range of manual and actuated process and control valves, regulators, rupture disks, flame arresters, level indication and flow control equipment, tank top vessel equipment, lined pipe, fittings and associated ancillaries. Our Valve Service Division tests, repairs and overhauls valves of any type, size or age, including on-site support.

Induchem UK is certified to ISO 9001, ISO 14001 and ISO 45001, and holds Fit for Nuclear (F4N) status, demonstrating our commitment to quality, safety and performance. Induchem Group is part of AxFlow Group, Europe’s largest distributor of positive displacement pumps and related products and services.

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> **“The Fusion Cluster has been instrumental in helping us build high-value connections and access new opportunities across the UK fusion supply chain.”**
>
> **Oliver Caunt, Managing director, JCS Nuclear Solutions**

THE FUSION CLUSTER

INNOVATE UK

Innovate UK inspires, involves, and invests in businesses developing life-changing innovations to create a better future. Providing sectors with expertise, facilities and funding, we help test, demonstrate and evolve ideas that drive UK productivity and economic growth. Our network and communities of innovators realise the potential of ideas and accelerate business growth.

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INNOVATIVE PHYSICS

Innovative Physics is an applied sciences company that evolves current technologies to deliver novel solutions and deployment techniques. At the core of our work is an extensive patent portfolio spanning radiation visualisation, signal imaging and processing, sensor development, artificial intelligence and pattern recognition algorithms.

We build detection systemsindispensable for real-world scenarios, including crystal characterisation, material processing, device fabrication, and ASIC designs.

Our modular read chains integrate FPGA IP blocks for ASIC interfacing and signal processing with embedded firmware supporting dose calculation, hardware control and communications. These systems are complemented by analogue and digital circuit design for power control, high-voltage generation, and advanced data communication.

Through our SmartSuite applications, clients achieve effortless data collection, monitoring, and analysis. Our threat engine implementations and handheld application software deliver robust, real-time intelligence.

Our patented AI platform excels at self-learning, adaptive operation, and real-time image processing, presenting scientific data in formats designed for rapid decision-making.

Our team has a deep understanding of the full data acquisition chain, from sensor through to user interface. We also develop custom modular solid-state neutron detectors for highly radioactive environments and patented hybrid semiconductor technologies offering wide dynamic range.

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IS-INSTRUMENTS

IS-Instruments is a micro-SME based in Kent that specialises in laser-based instrumentation, namely Raman spectroscopy. Our instruments can be used to measure liquids and solids over the spectrum of excitation wavelengths. Our latest development is a gas Raman spectrometer that uses a hollow core microstructured optical fibre designed and manufactured by the Optoelectronics Research Centre in Southampton. The gas Raman spectrometer has been used to successfully analyse hydrogen, deuterium and deuterium hydride, and current funding is in place for tritium analyses. Gas Raman can be used to qualify and quantify gaseous species either offline, or within an online process.

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JCS NUCLEAR SOLUTIONS

JCS Nuclear Solutions delivers advanced radiation detection, shielding and measurement technologies to the UK's fusion, nuclear, defence and research sectors. Trusted by organisations including Sellafield, AWE, UK Atomic Energy Authority, BAE Systems and Rolls-Royce Submarines, we combine 50 years of technical heritage with a modern, partnership-led approach to engineering.

Our portfolio spans high-performance gamma and neutron detection, custom shielding materials, spectrometry solutions and complex integrated monitoring systems, supported by deep expertise in project delivery for Tier 1 and Tier 2 environments.

As a small, agile specialist team backed by world-class manufacturing partners, we help fusion innovators access proven, mission-critical radiation technologies and dependable engineering support from concept through to deployment.

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JEMA ENERGY

Jema Energy is a specialist supplier of customised high-power conversion systems for Big Science facilities, particularly particle accelerators and fusion projects. We provide high-current and high-voltage power supplies used to drive klystrons, gyrotrons, tetrodes, neutral beam injectors, and magnet coils, meeting the extremely high precision and stability requirements of advanced research infrastructures.

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JOHN ELLISON ELECTRONICS

We research, design, approve and manufacture machines and instrumentation. Our research emphasis is carbon reduction and improving public health. We are nuclear industry trained and currently working with UKHSA Centre for Radiation, Chemical and Environmental Hazards.

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KI CONSULTANCY

Ki Consultancy is an international consultancy that specialises in supporting companies and institutions in the fusion industry. We specialise in strategic sourcing, business development, operational excellence, and supplier and supply chain development.

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KIER

Kier's purpose is to sustainably deliver infrastructure that is vital to the UK. We are a leading provider of infrastructure and construction services, and are committed to delivering for communities and leaving lasting legacies through our work.

At the core of our project delivery is technical excellence, utilising the latest construction methods, innovations and technology to ensure we offer the best value for our clients. We take pride in bringing specialist knowledge, market-leading experience and fresh thinking to create workable solutions on a huge range of projects across many sectors including power, defence, nuclear, energy, rail, aviation, education, health, housing and highways. Kier is committed to supporting the UK's fusion journey by bringing this experience, learnings, and expertise from similar sectors. The opportunity to deliver the infrastructure for fusion power generation aligns with both our values and capabilities. Being part of the fusion community will allow us to be at the forefront of upcoming news and developments.

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KINECTRICS

Kinectrics, a subsidiary of BWX Technologies, is a leading provider of lifecycle management services for the electricity industry. Trusted by clients worldwide, our expertise spans engineering, testing, inspection, certification, and parts – supply supported by independent laboratory and testing facilities, a diverse fleet of field inspection equipment, and an award-winning team of more than 1,300 engineers and technical experts. From initial design and type testing to operational deployment and maintenance, Kinectrics collaborates closely with clients to ensure these assets perform safely, reliably, and efficiently throughout their entire lifecycle.

We have extensive experience in isotope separation, extraction, storage, transport, and waste management. And we are uniquely positioned to support the fusion industry in designing, testing, and deploying sustainable and efficient D-T fusion fuel cycles applying hands-on experience with tritium technologies. Additionally, our broad expertise in engineering, licensing, high-power testing, and structural integrity of materials enables us to deliver a comprehensive range of services to our clients.

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"Working with The Fusion Cluster opened doors to new partners in the fusion sector in the UK."

Pierpaolo Bianchino, Business development manager, SIMIC

KUKA SYSTEMS UK

KUKA UK specialises in robot automation systems for the nuclear decommissioning industry.
The KUKA competence centre for nuclear applications is based at our facility in the UK where all nuclear projects for KUKA are completed.
We offer full design, build, test and installation of our systems.
Supported by training and full nuclear-level document support, KUKA also has an active interest in fusion and new build programmes.

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LABORATORY FOR SCIENTIFIC COMPUTING AT THE UNIVERSITY OF CAMBRIDGE

The Laboratory for Scientific Computing (LabSC) at the Cavendish Laboratory, University of Cambridge, specialises in research on the nonlinear interaction of the four states of matter at extreme conditions. Our work spans supercritical geothermal energy recovery, disruptions in magnetically confined plasma, laser ablation of materials, and lightning strike on aerospace composite materials.
The numerical simulation of fusion devices presents a unique combination of challenges, driven by the complex multiphysics nature of the plasma environment and the wide separation of spatial and temporal scales. Similar challenges arise on related engineering simulations such as liquid metal magnetohydrodynamics in non-uniform magnetic fields subject to external heating.

To tackle these problems, we are developing new mathematical models based on nonlinear, inhomogeneous partial differential equations, together with algorithms optimised for contemporary supercomputing architectures. These are complemented by hierarchical adaptive mesh refinement algorithms, allowing us to bridge the massively disparate length- and time-scales inherent in these problems.

As a result, we have developed a unique set of computational tools which have capabilities beyond current legacy software and are suitable for implementation in contemporary supercomputing architectures by design.

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LASER 2000 UK

Laser 2000 UK empowers scientific and industrial innovation with advanced photonics, precision motion, and networking technologies. Our portfolio equips research and industry with premium lasers, classical optics, and highly precise motorised stages.
Understanding the extreme demands of modern science, we also supply advanced test and measurement equipment, complete laser safety gear, microscopy and spectroscopy systems, and robust fibre communications products, including network test tools. By equipping world-class facilities with the highest quality components, we delight in helping our customers turn visionary concepts into reality.

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COMPANY DIRECTORY

FUSION PRIME

Kyoto Fusioneering

Colin Baus
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Kyoto Fusioneering is a privately funded fusion technology company with over $100 million in backing. Founded in 2019, the company operates across Japan, the UK, Europe, and North America.

Kyoto Fusioneering develops key technologies for the commercialisation of fusion energy, including gyrotron systems, tritium fuel cycle technologies, breeding blankets, and integrated fusion power systems.

In parallel, the company is advancing some of the world's first large-scale integrated fusion test facilities, including UNITY-1 in Japan, an integrated blanket and thermal cycle test facility; UNITY-2 in Canada, an integrated fusion fuel cycle facility; and UNITY-3 in the US, a proposed joint facility with Oak Ridge National Laboratory to test and validate tritium breeding under fusion-relevant conditions.

Through these efforts, Kyoto Fusioneering supports both public and private fusion developers, accelerating the realisation of fusion energy as a practical and sustainable energy source.

LASER ADDITIVE SOLUTIONS

Laser Additive Solutions is a precision engineering company based in Doncaster that uses state-of-the-art laser technologies to deliver cost-effective solutions to complex engineering and production problems in a wide range of industrial sectors.

We specialise in laser welding, laser surface hardening, laser 3D cutting and laser-direct energy deposition (L-DED) additive manufacturing using both wire and powder. Operating to an ISO 9001 quality management system approved by BSI.

Our work involves the processing of many difficult materials, including refractory metals such as pure tungsten and molybdenum, duplex stainless steels, and nickel-base alloys including Inconel 718 and Inconel 625. We undertake both commercial repair and manufacture work, as well as academic research and development activities, appreciating the often urgent and confidential nature of the work we perform.

Our customers include internationally recognised companies such as Rolls-Royce, Siemens, and Sulzer. And we have successfully completed fusion-related projects, depositing refractory metals in our L-DED cell featuring a TRUMPF 3001 TruDisk laser and a KUKA high accuracy robot.

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LEYBOLD UK

Delivering vacuum pumps, systems, accessories, services and tailor-made vacuum solutions for more than 170 years, we offer a broad range of advanced vacuum solutions for use in manufacturing and analytical processes, as well as for research purposes. These span laboratory to industrial scale and rough to UHV pressure range which includes turbomolecular, cryogenic and ion pump solutions. We also offer market-leading leak detection equipment. We focus on the development of application and customer-specific systems for the creation of vacuums and the extraction of processing gases. Fields of application are coating technologies, thin films and data storage, analytical instruments and industrial processes.

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LOWE STILLAGES & CAGES

Lowe Stillages & Cages is a UK specialist designer and manufacturer of engineered stillages and handling systems for highly regulated sectors including nuclear, defence, aerospace and heavy engineering. We design and produce bespoke transport, storage and lifting frames that protect high-value, safety-critical components throughout manufacture, inspection, transport and site operations.

Our core capability is risk-led engineered containment: translating component geometry, load cases, lifting interfaces, environmental constraints and regulatory requirements into robust, compliant handling solutions. This includes structural design, weldment fabrication, load restraint, protective interfaces, identification and traceability, and lifecycle durability.

We operate certified welding and fabrication processes with full material traceability and documented inspection regimes aligned to nuclear quality expectations. Our stillages prevent damage, distortion, contamination and unsafe lifting, reducing NCRs, programme delays and safety exposure.

We support both new-build and legacy programmes, from one-off prototypes through to repeat fleet supply, and can align with client specifications, audit requirements and documentation standards. Lowe solutions are engineered for long service life, repeat use and controlled handling in demanding nuclear environments.

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“Working with The Fusion Cluster has opened the door for us to collaborate with new partners in the fusion industry, we are excited for what is to come in 2026!”

Peter Brown, Managing director, Laser Additive Solutions

LTI METALTECH

LTi Metaltech is a UK-based precision engineering and manufacturing specialist delivering high-integrity pressure vessels, containment systems, and bespoke fabricated components for regulated industries including healthcare, energy, renewables, nuclear and advanced scientific applications. From our Oxfordshire facility, we combine advanced robotic and semi-automated welding technologies with one of the UK’s largest teams of coded welders to produce precision-engineered solutions that meet stringent international standards for safety, compliance and performance. Our core capabilities include precision welding and fabrication, material preparation, metal forming, design and process development, and turnkey fabrication project delivery. We work closely with clients from concept through production, applying rigorous quality systems and full traceability to ensure reliable performance in the most demanding environments.

LTi Metaltech adds value through deep technical expertise, scalable manufacturing capacity, and a commitment to innovation. Trusted by global OEMs and Tier-1 partners, we deliver solutions that underpin life-critical medical technology, energy transition infrastructure, and high-performance engineered systems worldwide.

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LUCIDEON

Lucideon is a materials science consultancy that helps clients solve complex challenges through materials development, process optimisation, and characterisation. Working to recognised standards including ISO 17025, Nadcap and 10 CFR 50 Appendix B standards, we combine cross-industry insight with materials science expertise to develop and implement innovative technology platforms that deliver improved product performance, reduced cost and clear market differentiation.

Drawing on many years of experience in development, analysis, and assurance, we provide technical consultancy that enables, enhances, and accelerate our clients’ R&D activities.

Our work spans a wide range of advanced materials and processes, including ceramic matrix composites, novel joining and coating technologies, refractories, ceramic additive manufacturing, novel cements, geopolymers, and more.

Our multi-disciplinary team of scientists, engineers, and commercial analysts, are supported by world-leading testing and characterisation laboratories, pilot and feasibility plant, and a management and certification division. Key capabilities include stress corrosion cracking analysis, advanced alloy characterisation, structural testing, custom machining and complex thermomechanical testing.

Lucideon has offices and approved laboratories in both North and South Carolina, as well as New York state, and Staffordshire and Cambridge in the UK.

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LUFFY AI

Luffy AI is a team spinout of UK Atomic Energy Authority. Our mission is to help our customers improve productivity, safety and sustainability through intelligent control systems. Our adaptive AI controllers enable operators to extract the maximum potential from their equipment, without the need for expert human input. Our novel AI controllers are trained in a digital twin environment (no large data based training), specifically to target your key commercial drivers, and through adaption at the edge, will self-optimise once deployed. This enables you to accomplish significant enhancements to your process, whether it is improving productivity, robustness to failure modes or reducing energy consumption, all whilst removing the headache of configuring and optimising your control system. Our AI technology has value across the fusion supply chain, from core plasma control to the production of specialist fusion materials.

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M5TEC

M5tec provides multidisciplinary engineering design, consultancy, and embedded engineering resource to UK and international fusion energy developers. From our head office and workshop in County Durham, we also provide complete design and build solutions. Our team of experienced engineers develops innovative, high-assurance solutions to complex engineering challenges.

We have an established track record in remote handling system design for hazardous environments across the fusion, nuclear, and subsea sectors. M5tec is a Tier 1 supplier on UK Atomic Energy Authority's Engineering Design Services and Design and Build frameworks, and a Tier 2 supplier on their Embedded Engineering resource framework, with our engineers working directly within UKAEA teams to support the delivery of advanced fusion projects.

Our fusion industry experience includes vacuum vessels, beamline steering mechanisms, radiation-hardened actuators, dextrous manipulation and in-vessel fastener handling technologies and water-cooled mirror systems.

We also undertake market surveys and technology assessments for in-vessel inspection and repair, breeder blanket remote handling systems, electrical design for the STEP power plant, shielding solution concepts for tokamaks, tokamak core fuelling technology, manufacturing plans for in-vessel components, remote segmentation tooling for tokamak decommissioning, fasteners for fusion environments, and the provision of embedded engineering design support to fusion teams.

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MATERION UK

Materion is a worldwide supplier of engineered materials. In particular, we are a leading supplier of beryllium and beryllium-containing materials. Our full product range can be viewed at materion.com

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MCT BRATTBERG

MCT Brattberg manufactures and supplies cable transit systems for the sealing of cable and pipe penetrations in walls and floors. We have supplied UK Atomic Energy Authority for over 30 years and were the original equipment manufacturer for JET. We are currently working with MAST, RACE and STEP.

Brattberg cable transits form a fully modular system that can be specified at the design stage to accommodate all sizes and types of cable and pipe. Built-in spare capacity allows for future expansion, enabling future upgrades throughout the lifetime of a facility without the need to create new penetrations in the building structure.

Our systems are fully certified against fire, explosion, blast, contamination, shock and seismic events.

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MUWAVE

MuWave is a high-power microwave technology company unlocking the potential of microwaves for fusion energy and a wide range of industrial applications. A spin-out from the UK Atomic Energy Authority, we build on decades of engineering expertise to deliver high quality products.
We supply complete microwave transmission systems, including corrugated waveguides and associated components, enabling lower-cost, high-efficiency power delivery for demanding environments.

Alongside our product portfolio, we provide full-system engineering design, consultancy, and expert review services, helping customers optimise every stage of a microwave system from conceptual architecture through to final integration.

Looking ahead, we are developing the next generation of microwave sources, including state-of-the-art gyrotron technologies that are essential for commercial fusion and have valuable application across sectors such as geothermal applications and medical imaging.

Headquartered at Culham Campus in the UK, MuWave is accelerating the deployment of advanced microwave solutions to help realise fusion energy while unlocking new frontiers in science and industry.

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NTI MEASURE

We specialise in high-precision 3D measurement using the V-STARS photogrammetry system, providing expert metrology services for complex industrial environments. Our team delivers 3D measurements in the nuclear and fusion industries.

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NASCENT SEMICONDUCTOR

Nascent Semiconductor is a high technology start-up, based on a 20 year pedigree in silicon carbide electronics. The company designs and manufactures electronic components and systems that are capable of operating in a range of extreme environments, including those found in the nuclear industry. From sensors and power electronics to detectors and quantum technology, the company offers a range of unique solutions to problems.

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> **"The Fusion Cluster has been instrumental in presenting FEP as a valid and active participant in the UK (and wider) fusion industry - this has led to several high quality, successful, business connections."**
>
> **Chris Peters, Managing director, Fusion Energy Partners**

NEO NEGOTIUM

At Neo Negotium, we accelerate the transition from hybrid to dark factories through the integration of physical artificial intelligence, robotics, and smart automation in the manufacturing sector. We help organisations on the path to autonomous production by implementing a hybrid approach with our tailored, step-by-step, turn-key solutions enabling a modular and gradual approach to updating, retrofitting and transitioning.

We are also committed to driving the adoption of circular economy solutions and the green energy transition through sustainable, forward-looking consulting. Our expertise lies in circular economy solutions that harness the potential of renewable technologies with a focus on energy infrastructure, including generation, transmission, and distribution. We ensure that our clients are equipped with physical AI, advanced manufacturing, high-tech robotics, cobots, industrial automation, and AI agent-driven services to help them thrive in an eco-friendly future.

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NIS

NIS provides integrated engineering solutions for high-integrity, safety-related fabrications and bespoke plant and equipment. Our core capabilities include design engineering, design for manufacture, multi-discipline manufacture (MEICA), witness testing and staging as well as installation support and commissioning. Based in Chorley, Lancashire, we operate a manufacturing facility of approximately 6000 m^2 and employ a workforce of over 280. Since our founding in 1983, we have built a proud heritage of delivering reliable, high-quality engineering solutions across regulated and technically demanding sectors.

Anthony Morris
Business winning portfolio lead
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NUCLEAR CAREERS

We provide recruitment advisory services, specialising in retained talent searches and contract consulting for mid-career to executive-level engineering and project delivery professionals. Our work supports clients across all stages of talent acquisition, including hiring strategy, interview preparation and general recruitment support.

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COMPANY DIRECTORY

FUSION PRIME

Novatron Fusion Group

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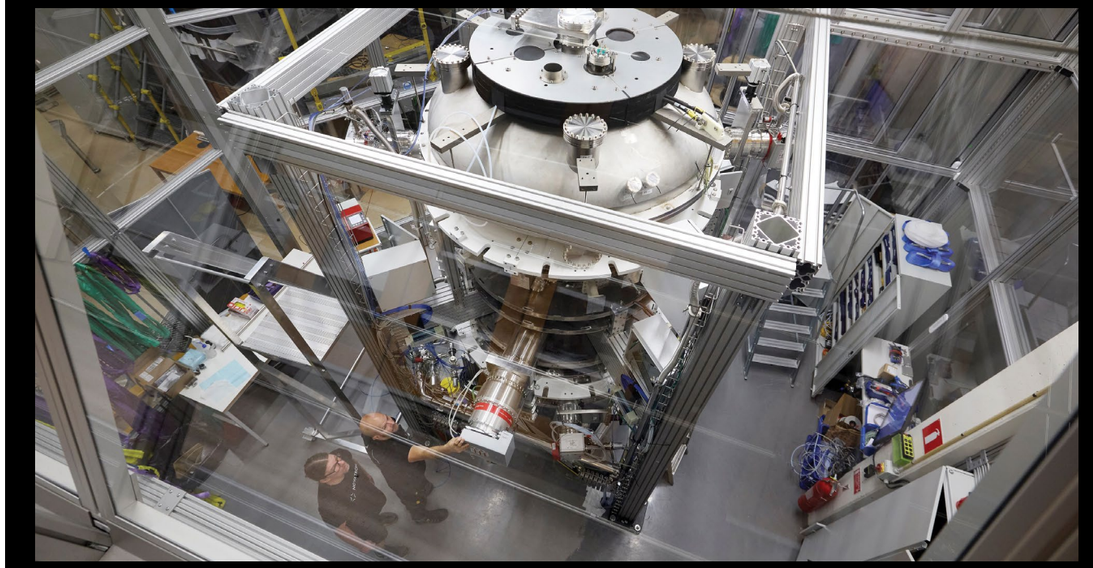

Novatron Fusion Group is developing a fusion reactor concept based on traditional mirror machines and adapted to provide stable plasma confinement.

Our Novatron concept represents a significant step towards fusion power generation by taking an innovative approach to magnetic plasma stability and confinement. As well as addressing key challenges present in previous and current reactor designs, the simpler design of our fusion machine promises the added benefits of faster development and commercialisation on a large scale.

NUCCOL

Nuccol (Nuclear Collaboration Ltd) is a UK-based supply chain and industrial strategy consultancy supporting the delivery of nuclear and fusion programmes. With decades of combined experience across supply chain development, manufacturing engineering, and programme delivery, we help organisations strengthen capability, build resilience, and position themselves for participation in major clean energy projects.

We work with technology developers, government bodies and industry to assess supply chain readiness, identify capability gaps, and develop practical, evidence-based strategies that enable long-term growth. Our expertise spans supply chain mapping, capability assessment, supplier development, demand modelling, and industrial integration.

We are particularly experienced in translating complex technical requirements into structured supply chain frameworks, enabling informed decision-making around UK capability, competitiveness and scalability. Through initiatives such as Fit For Nuclear (F4N), industry roundtables, and “Meet the Buyer” events, we actively connect suppliers with opportunity and support performance improvement aligned to nuclear and fusion standards.

We combine analytical rigour with hands-on manufacturing insight, helping businesses and programme owners navigate regulatory complexity, enhance operational performance, and accelerate the transition to clean, secure energy systems.

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NUCLEAR JOBS

NuclearJobs.org is a global industry job board that enables candidates to search for opportunities across industry employers and the wider supply chain. We operate a dedicated fusion portal designed to attract skilled professionals internationally and support both in-sector hiring and talent retention. When suitable applicants are in short supply, our job board expansion network digitally reaches matched candidates, helping HR and talent teams when hiring.

Andy Gee
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NuclearJobs.org

OBSERVATORY SCIENCES

Observatory Sciences has been delivering high-quality control and data acquisition systems for large scientific facilities for over 28 years, specialising in software for accelerators and large optical and radio telescopes. Established in 1998 by five former scientists from the Royal Greenwich Observatory, we develop software for large scientific facilities and their instruments, as well as providing specialist training in the EPICS and TANGO toolkits. All of the software that we produce is unique and we work in close collaboration with customers to meet their specifications. We are currently involved in many of the largest scientific projects worldwide, including the Square Kilometre Array Observatory, European Southern Observatory, European Synchrotron Radiation Facility, Diamond Light Source, the CHIMERA fusion test facility, the Extreme Photonics Applications Centre at the Central Laser Facility, the ISIS neutron and muon source, and the Daniel K. Inouye Solar Telescope (DKIST).

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> **“The Fusion Cluster is an excellent example of how collaboration between private industry, institutions, academic and state authorities results in a vivid eco-system for acceleration of fusion technology, concepts and industrialisation.”**
>
> **Philip von Segebaden, Director of partnerships, Novatron Fusion Group**

OCEM POWER ELECTRONICS

OCEM Power Electronics designs, manufactures and installs power systems for premier research laboratories around the world. Our customised solutions are enabling advances in the fields of fusion, particle physics and medical research, and driving advanced industries such as transportation and food processing.

Our engineers have authored, presented and published dozens of papers at international conferences, and have developed and patented new power electronics technologies across both high voltage and high current domains.

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OPENSPDM

Research and development of a fusion reactor and a fusion power plant requires many large numerical simulations. These models work to numerous different fidelities of the science and engineering of fusion. The recent US Department of Energy workshop on the management and storage of scientific data (doi.org/10.2172/1843500) concluded that FAIR (Findable, Accessible, Interoperable, Reusable) data management of simulation data, processes and results is needed to provide confidence in results, to enable the large-scale, traceable use of artificial intelligence and machine learning, and to enable functional digital twins.

Simulation data management is a technology which provides FAIR management of scientific and engineering simulation data. openSPDM is an open-source SDM solution built on the Aras Innovator open PLM platform. This solution was prototyped at UKAEA in 2020, and reported at the NAFEMS World Congress 2021 in the presentation Next Generation Information System Architecture for Simulation-led Engineering of a Fusion Reactor. openSPDM can help you get your simulation data under control, based on the methodology in the NAFEMS publication How to get Started with Simulation Data Management.

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OPTIMA SYSTEMS CONSULTANCY

Optima is a systems engineering and engineering management consultancy based in Bristol with clients across the UK. We work primarily in the defence and nuclear industries, and have clients in both public and private sectors.

We have supported the UK’s fusion sector since 2018 when we secured a place on UKAEA’s Systems Engineering Framework. Since then, we have provided systems engineering expertise to many of UKAEA’s programmes, including JET/JDR, H3AT, RHSME, MAST-U, STEP, FTF, LIBRTI and RACE, as well as undertaking fusion assignments outside of UKAEA.

At Optima, we believe that today’s complex systems and large organisations require a structured systems thinking approach to manage complexity, develop balanced systems and deliver success. We work on some of the world’s most complex engineering and organisational challenges, using a broad systems-thinking methodology that transcends sector. Our structured approach means that we view problems end-to-end and in the widest context, so that no critical element is missed.

We pride ourselves on providing high-calibre, experienced engineering consultants who engage directly with our customers. Working flexibly and in partnership, we adapt to changing requirements and emerging technology to provide the best possible support at all times.

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OPTOMAN

OPTOMAN develops and manufactures high-power, large-diameter laser optics designed to meet the demands of fusion energy research.

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ORANO

Orano transforms nuclear materials so that they can support the development of society, with a primary focus on energy. We are world leaders in the fuel cycle for both nuclear fission and fusion, with activities ranging from tritium-cycle management for ITER (International Thermonuclear Experimental Reactor) to the transformation of fissile materials for nuclear operators.

Globally, Orano's 17,500 employees combine technical expertise, mastery of cutting-edge technology, and a permanent focus on innovation and safety to serve customers around the world. In the UK, we provide a unique gateway to this global expertise, complemented by four decades of on-the-ground experience with the UK nuclear and nuclear technology landscape.

We are committed to supporting the development of the energy of the future, offering innovation and decades of expertise to the fusion sector. Our expertise and experience can be adapted, focused and implemented across the entire lifecycle of facilities.

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OXFORD CRYOSYSTEMS

Oxford Cryosystems (OxCryo) is a global leader in advanced cryogenic technologies, delivering high-performance cooling solutions for scientific research and emerging energy applications. Founded in 1985, we pioneered open-flow nitrogen gas cooling, transforming X-ray crystallography and setting new standards in experimental control and reliability. Our continued growth has been driven by close collaboration with the scientific community, developing systems that meet the evolving demands of modern analytical techniques.

Today, OxCryo's portfolio includes open-flow nitrogen, argon and helium systems, alongside cryogen-free platforms powered by in-house Gifford–McMahon cryocoolers and compressors. These technologies support research across X-ray and neutron science, superconductivity, energy storage, interferometry, optical systems and radio astronomy. We contribute to major international astronomy programmes, providing cryogenic cooling for C-BASS, MeerKAT and SKA-Mid within the Square Kilometre Array telescope.

Beyond astronomy, we deliver bespoke cryogenic solutions for synchrotrons, neutron and muon sources, as well as plasma diagnostics and monitoring. Through sustained partnerships with institutions including the University of Oxford, University of Leeds, University of Portsmouth, Diamond Light Source, UK Atomic Energy Authority, Australian Nuclear Science and Technology Organisation and Oak Ridge National Laboratory, OxCryo's engineering expertise enables breakthrough science and supports transition to a low-carbon energy future.

Adriana Klyszejko
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OXFORD SIGMA

Oxford Sigma is an internationally recognised advanced materials company specialising in solutions for fusion, nuclear, and defence systems. Founded in 2019, we were created to help enable the commercial deployment of fusion energy by developing sustainable, high-performance materials capable of withstanding extreme environments.

We believe that the success of fusion energy, nuclear fission, and high-energy technologies depends on materials engineered for the harshest operational conditions. Through scientifically rigorous and engineering-led development, we support energy security, national resilience, and climate action.

Our vision is to accelerate the deployment of next-generation energy and defence systems by advancing materials for extreme radiation and temperature environments, shaping international standards, and driving innovation in materials engineering. Our technology-agnostic approach is grounded in practical, scientifically validated design, enabling robust decision making and reducing risks in system deployment.

We deliver advanced materials and engineering capabilities across materials manufacturing, tritium and lithium systems, and fusion engineering services. These include end-to-end lithium ceramics production, liquid metal technologies, radiation shielding, tritium-related materials, and expertise in regulation, qualification, and systems engineering. Our mission is to provide reliable, high-performance material solutions to support safe, commercially viable energy and defence technologies.

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PILLSBURY WINTHROP SHAW PITTMAN

Pillsbury is a global law firm and a thought leader in the area of fusion energy. Pillsbury is widely recognised as one of the world's top law firms for nuclear energy and was the first firm to establish a dedicated nuclear energy practice over 50 years ago. While fusion energy and nuclear power are fundamentally different, the technical and regulatory requirements to advise on the legal frameworks of these advanced energy technologies are similar. Pillsbury's comprehensive fusion energy practice aligns with its commitment to advance clean energy technologies and complements our well-established focus on the energy transition. Pillsbury is actively advising companies on the role fusion energy will play in the energy transition, including advising commercial fusion developers on regulatory, commercial, public policy, and intellectual property matters, giving established companies and utilities guidance on fusion's role in meeting decarbonisation goals, serving as regulatory counsel to the Fusion Industry Association, collaborating with international and national agencies to develop guidelines for the global deployment of fusion, and working with the investment and finance communities on how fusion fits into their overall sustainability programs. Our fusion energy practices web page is bit.ly/3SeHfr6

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PLASMATE

We specialise in research, development, and deployment of high-performance coatings for plasma-facing wall and REBCO equipment. We can provide thermal barrier coatings with high insulation properties of around 2.0 watts per metre kelvin and corrosion resistance at extreme temperatures above 1600 °C.

Albert Tan
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plasmate.sg

"The Fusion Cluster has highlighted key contacts and networking opportunities for my business."

Stuart Harrison, Managing director, Solar Flare Services

POLAR MEDIA

We are a film, animation and interactive (VR and AR) production company. We specialise in producing award-winning, engaging, internal and external content for the energy sector. We've been producing for the likes of ITER for about 10 years, as well as organisations including FuseNet, Proxima Fusion, Gauss Fusion and Helical Fusion, and have recently produced a one-hour documentary about fusion for German TV channel ZDF.

We work with other energy companies including Ørsted, bp, Castrol and Total Energies as well as organisations like CERN, European Space Agency, Mitsubishi, CTAO, SKAO, as well as dozens of smaller companies around the world in the science and technology sectors.

We have offices in London and Perth, Australia, and have years of taking stories about brands and technology to a global audience, through beautiful, sharable content.

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Creative director
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PORVAIR FILTRATION GROUP

Porvair has been designing and supplying high-quality bespoke filtration solutions, and other equipment, to the global nuclear industry since the 1980s. We also offer tailored solutions to the power generation, fuel production, reprocessing, decontamination, decommissioning, and waste packaging sectors.

As an engineering company in the filtration industry, we can progress an initial discussion to a fully-optimised solution, meeting material, code, technical and quality requirements to provide a total solution to a specific problem. Our capabilities range from a single, specialised, retrofit element to a complete, packaged system to meet the precise needs of a complex application, together with on-site support and a complete after-sales service. In addition to our acknowledged leadership in both engineering and quality, we can also offer the services of our extensive laboratory, development and testing facilities.

We can provide custom-designed filtration solutions using a wide range of metallic and non-metallic filtration media. Also available is a variety of surface treatments to enhance the chemical, temperature and solids abrasion resistance for specific applications.

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PRECISION CERAMICS

Precision Ceramics supplies advanced technical ceramic components for demanding scientific and energy applications, including fusion research, reactor development and commercial systems. We provide precision-engineered ceramic solutions designed to perform reliably in the extreme environments typical of fusion systems, where components must withstand high temperatures, intense radiation, ultra-high vacuum conditions, and strong electromagnetic fields.

Our high-performance materials include boron carbide, alumina, silicon nitride, aluminium nitride, boron nitride, zirconia, Macor® glass-ceramic, and Shapal Hi-M Soft™ machinable aluminium nitride. These materials combine thermal stability, radiation shielding, electrical insulation, corrosion resistance, and mechanical strength, making them ideal for critical fusion components such as electrical insulators, plasma-facing parts, vacuum-compatible elements, thermal management components, and precision structural elements.

We specialise in machining and finishing of advanced ceramics to complex geometries and tight tolerances. We suppport our customers from early-stage design and prototyping through to small-batch and production manufacturing to ensure that components meet the performance and reliability requirements of fusion environments.

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COMPANY DIRECTORY

FUSION PRIME

Proxima Fusion

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Proxima Fusion is Europe's fasted growing fusion company, developing power plants based on quasi-isodynamic stellarators, a leading magnetic confinement concept for continuous fusion power. Based in Munich and founded as the first spin-out from the Max Planck Institute for Plasma Physics (IPP), we build directly on the scientific breakthroughs of Wendelstein 7-X, the world's most advanced stellarator.

As a first milestone, we are developing Alpha, a stellarator demonstrator designed to achieve net energy gain (Q>1) and scheduled for commissioning in the early 2030s. Alpha will pave the way for Stellaris, our first commercial fusion power plant, planned for completion in the late 2030s.

We have signed a memorandum of understanding with the Free State of Bavaria, IPP, and RWE to build Alpha and Stellaris in Bavaria, Germany. Through the Alpha Alliance, a consortium of more than 30 European industrial companies, we are helping establish the supply chain needed to build a European fusion industry.

PRORSUS

Prorsus offers knowledge economy support, investment and partnership; technology ecosystems and collaborative clusters establishment, growth and stewardship; specialist real estate delivery and technical project management.

Prorsus has 8 years' experience and investment as a private sector shareholder in the Harwell Campus Partnership (2013-21). In that time it has grown the interdisciplinary community, science infrastructure, and balance sheet values on the campus, and contributed to the wider UK GDP impact from Harwell. It has also provided pro bono strategic advice in Oxfordshire and for HM Government in the science and innovation spheres; multi-sector ongoing investment of both venture capital and real estate; and has interest and experience in space, energy, life sciences, quantum, agriculture and food technology.

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QENIQ ADVISORY

QENIQ Advisory supports investors, developers, suppliers, service providers and stakeholders along the industrial value chain for clean energy generation including both fission and fusion.

We provide strategic and business engineering support for energy infrastructure programmes, as well as for lean organisations delivering complex solutions or undergoing transformation processes.

Our services include steering procurement and tendering and conducting due diligence projects. We also develop thought leadership on "managing the transition gap" and provide mentorship to young leaders.

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QUANTUM LEAP ENERGY

Quantum Leap Energy is a development-stage nuclear fuels company dedicated to advancing innovative technologies and processes across critical segments of the nuclear fuel cycle.

We focus on front-end activities, including uranium conversion, enrichment of uranium-235 for nuclear fuel production (HALEU, LEU+ and LEU), and isotopic separation of lithium-6 and lithium-7, as well as back-end radioactive waste treatment technologies.

Through exclusive global rights to proprietary aerodynamic separation process and laser-based quantum enrichment technologies, Quantum Leap Energy is positioned to address gaps in the nuclear fuel supply chain for advanced nuclear reactors, small modular reactors, and fusion systems.

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"Working closely with The Fusion Cluster is a dynamic and genuinely interactive experience. It creates various opportunities for collaboration by bringing together researchers, engineers and businesses who share a commitment to advancing fusion. In an emerging field like fusion energy, strengthening networks across adjacent disciplines is critical. By connecting expertise from different sectors and enabling open exchange, the Cluster helps accelerate innovation and build the technologies that will underpin the future of fusion."

Adriana Klyszejko, Head of scientific partnerships & strategic marketing, Oxford Cryosystems

RADCLIFFES CONSTRUCTION CONSULTANTS

Radcliffes is an independent construction consultancy specialising in the leadership and delivery of complex projects across commercial, industrial and energy sectors.

We manage the full project lifecycle – securing planning consent, leading the design process, procurement and construction – for commercial investors, property funds, private companies and high net worth individuals.

We are not a process-driven firm. Every project is different, and our approach is deliberately tailored to the client and the challenge. This ethos makes us well-suited to the emerging and fast-moving requirements of the energy transition, where standard solutions rarely apply.

We are currently working with the East Midlands Combined County Authority on the Trent Supercluster initiative and have been actively involved in the Rolls-Royce Small Modular Reactor programme, reflecting our commitment to the UK's low-carbon energy ambitions.

Our value lies in proactive, hands-on management: reducing risk, protecting programme and keeping projects moving. We work collaboratively with clients, design teams and contractors to deliver outcomes, not just processes.

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RDP ELECTRONICS

RDP is a UK company with over 60 years experience designing and manufacturing transducers and instrumentation. We provide transducers for measuring position, pressure, force and torque, supporting customers across many sectors, including space, nuclear, renewables, oil and gas, marine, subsea, aerospace, automotive and rail.
With decades of expertise, a dedicated design and engineering team, and onsite manufacturing facilities, we can design and manufacture products to meet clients' requirements, from general-purpose to harsh-environment and fully bespoke designs.

Our capabilities include displacement measurement systems with ranges from 0.5 mm to 940 mm, operating pressures from full vacuum to 20,000 psi. Our systems feature a maximum PT rating of IP68, enabling functionality at depths of up to 2.2 kilometres. They can operate in extreme temperatures ranging from -220°C to 600°C and withstand radiation doses as high as 1 giga gray.

We also offer a comprehensive range of sensors designed for precise measurement of force, pressure, and torque. Our load cell options include tension, compression, and universal types, with ranges spanning from 250 grams to 2.2 mega newtons. For pressure measurement, we provide gauge, absolute, barometric, vacuum, and differential transducers, with pressure ranges from 542 millibar to 6,895 bar.

We offer flexible instrumentation outputs, including voltage, current, digital, display and Bluetooth, in a variety of form factors from in-line and benchtop to rack-mounted and surface-mountable systems.

Oliver Keeling
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REACT ENGINEERING

We are an independent UK engineering consultancy specialising in the delivery of complex infrastructure and asset programmes within highly-regulated environments. We combine strategic insight, engineering-led problem solving and integrated delivery to reduce uncertainty, strengthen decision making and accelerate outcomes.

Our expertise spans the full project lifecycle from shaping clear, actionable strategies and programmes, to translating strategic intent into practical engineered solutions. We support clients in managing complex asset transitions and decommissioning, while also providing targeted specialist engineering services to resolve challenges and drive projects to successful completion.

By combining deep technical expertise with a pragmatic, delivery-focused approach, React Engineering enables clients to navigate complexity with confidence and achieve lasting results.

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COMPANY DIRECTORY

FUSION PRIME

Realta Fusion

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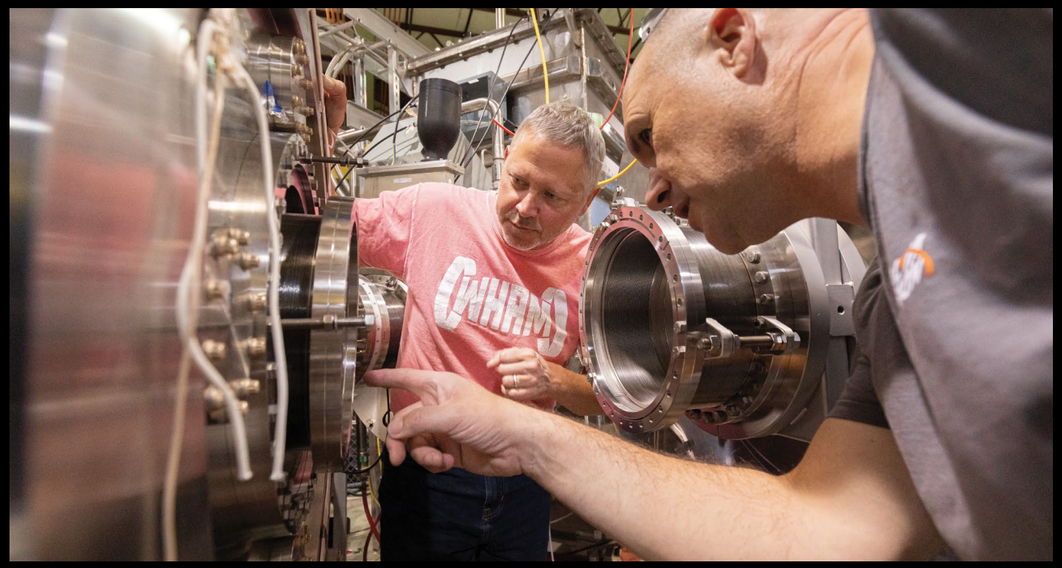

Realta Fusion is developing compact, scalable, modular – CoSMo fusion™ – energy systems as the fastest path to commercially competitive fusion energy. From day one, the company has built around a practical roadmap based on the magnetic mirror concept, offering the lowest capital expenditure and least complex technical development. Our technology enables a simpler cylindrical architecture that makes reactor engineering, construction, and operation and maintenance dramatically easier.

Our concept allows for the adoption of fusion across diverse commercial use-cases by deploying standard modules in series with linear scaling, anchored in a repeatable manufacturing process. With a "design-once, build-many" approach, Realta's CoSMo fusion™ can serve various markets, ranging from on-site industrial process heat and behind-the-meter data centre power up to the electric-grid scale.

Realta Fusion spun out of a large fusion experiment at the University of Wisconsin-Madison funded by the US Department of Energy's Advanced Research Projects Agency – Energy. The company continues to operate the WHAM fusion machine and is one of just eight companies contracted by the US Department of Energy to its flagship milestone-based fusion development programme.

RED ENGINEERING

RED Engineering is an award-winning SME with a mission to make hazardous operations safer, quicker and cheaper. Core expertise encompasses mechanical engineering including design of equipment for deployment in an active environment; robotics and process automation; agile product development – the rapid development and delivery of first-of-kind engineering solutions and equipment.

Our capability is delivered via three linked services: engineering consultancy; equipment supply; testing services. These services can be provided individually or on a sequential basis to develop first-of-kind equipment to enable the most challenging construction, maintenance, and decommissioning projects. Over the past 14 years we have successfully delivered over 500 projects for clients in the energy industries including Sellafield, DSRL, GE Oil & Gas and TechnipFMC.

We can add value in the following areas: mechanical handling equipment – design, manufacture, delivery, and testing of equipment for deployment on site; high integrity enclosures – including delivery of systems with an alpha containment capability as evidenced by our DPaCC project which featured a C5 process cell; material handling systems. Our track record is centred around the delivery of specialist materials handling systems to allow successful remote operations in hazardous environments.

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REDGRAY ENGINEERING

As RedGray Engineering Ltd (RGE), we specialise in bespoke fabrications in stainless steel and higher alloys for critical process applications.

We have particular expertise in coaxial tubular containment systems, employing coded automated and manual welding processes to handle highly toxic, pyrophoric, corrosive, and explosive media for critical process applications.

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RIDGWAY MACHINES

Ridgway Machines is a UK-based designer and manufacturer of advanced, high-precision automated production systems for next-generation energy and electrification technologies. With over 100 years of engineering heritage and a 42,500-square-foot facility in Leicester, we deliver bespoke manufacturing platforms to global leaders in fusion energy, superconducting power, grid and electrical infrastructure.

With more than two decades of involvement in superconducting and high-field magnet programmes, including contributions to initiatives linked to CERN and ITER, we have developed deep expertise in precision coil, cable, conductor and electrical manufacturing platforms.

As part of Tokamak Energy, Ridgway plays a critical role in enabling the industrialisation of high-temperature superconducting (HTS) technologies including; coils, magnet systems and superconducting cables. We specialise in coil winding, HTS-tape handling and processing, tape wrapping and insulation systems, and fully integrated automated production lines.

We enable the scalable industrial manufacture of superconducting coils, magnets, cables and advanced electrical systems.

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COMPANY DIRECTORY

FUSION PRIME

Renaissance Fusion

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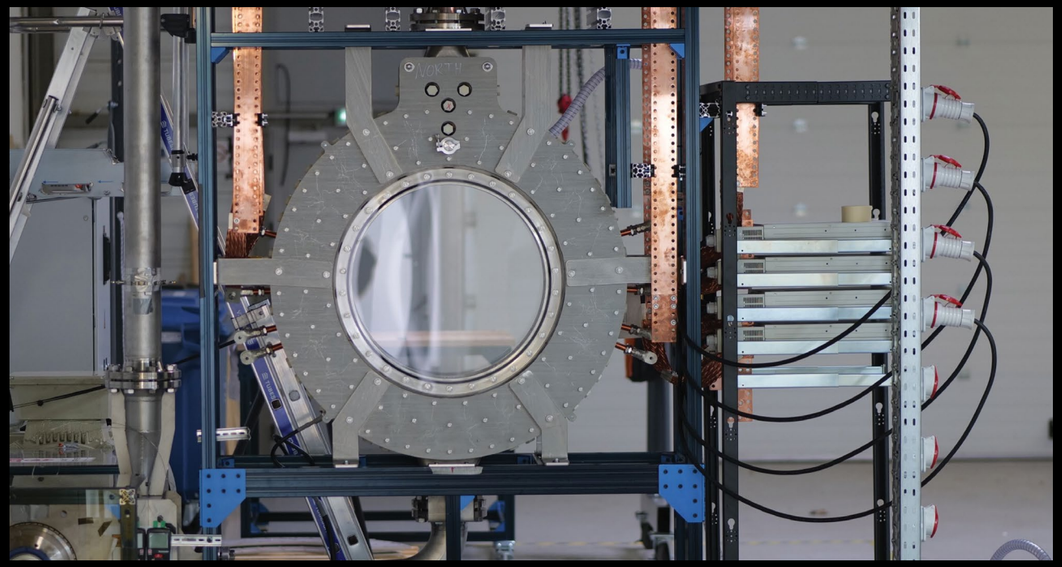

Renaissance Fusion is the first fusion energy company operating in France and Italy. Our mission is to deliver abundant, safe, and zero-carbon energy to combat climate change, ensure energy security and support sustainable development.

We are developing a stellarator-type fusion machine that employs two key innovations: laser-engraved high-temperature superconductors and liquid-metal technologies. These enable a compact, modular and industrially scalable design. Since its foundation in 2020, Renaissance Fusion has filed 12 patent families, raised over €60 million and grown a team of more than 100 professionals from 24 different nationalities across our sites in Grenoble, France, and Pisa, Italy.

RISKTEC

Risktec is an independent and specialist provider of risk and safety management consulting, training, resourcing, research and development and inspection services, and is part of the TÜV Rheinland Group.

We have a substantial track record of supporting nuclear clients in the UK and internationally, providing nuclear safety, security, licensing and engineering expertise. Our extensive experience spans a wide range of facilities covering all stages of the nuclear fuel lifecycle, and we have a proven track record in meeting the challenges of specific projects.

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Principal engineer
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ROLLS-ROYCE

Rolls-Royce develops and delivers complex power and propulsion solutions for safety-critical applications in the air, at sea and on land.

Menno Tegenbos
Physicist - emerging technologies
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ROTEX TECHNOLOGIES

Rotex Technologies delivers advanced engineering, electrification and sustainable energy solutions for regulated industries. We specialise in mechanical and electrical system design, industrial machinery, drive and control systems, and industrial equipment engineering, supporting projects from concept through qualification, certification and in-service optimisation.

Our services include CAD design, CFD and FEA simulation, structural, stress and heat-transfer analysis, troubleshooting, and independent technical consultancy, with a strong focus on product safety, reliability, compliance and lifecycle performance.

We accelerate innovation via collaborative R&D in advanced manufacturing, renewables, energy storage, automation, digital twins and data-driven engineering. For nuclear applications, we provide verification, validation and qualification of electrical equipment, engineering and production support, and safety-critical assessment and assurance for high-integrity systems, helping clients de-risk delivery in demanding, highly regulated environments.

Li Li
CTO
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“Working closely with The Fusion Cluster has been transformational for our community. It’s enabled our customers to grow faster, make meaningful collaborations and access opportunities they wouldn’t have found elsewhere. Together, we’ve opened doors, supported innovation and welcomed a new wave of start-ups into the Culham ecosystem.”

Trudy Franklin-Slattery, Centre manager, Culham Innovation Centre

RULLION

Rullion is one of the UK's largest recruitment businesses and a trusted workforce partner to the fusion sector, with over 20 years' experience supporting complex and safety-critical programmes. We are the leading workforce partner in the UK fusion sector with a deep understanding of talent requirements from early-stage R&D and prototyping, through engineering design and programme delivery, to operational readiness and infrastructure support.

Our established global talent network spans engineering, construction, project controls, programme management, digital, and emerging fusion disciplines. This enables us to source niche and hard-to-find skills quickly, for both immediate contract needs and long-term strategic hiring.

With a dedicated fusion recruitment team based at Culham, Oxfordshire, we sit at the heart of the UK fusion ecosystem and actively support industry-wide workforce development as members of the Fusion Skills Council.

What sets Rullion apart is not only only recruitment, but our ability to deliver scalable workforce solutions, talent pipeline development, and labour market insight. As fusion moves toward commercialisation, we are proud to play a key role in building the workforce that will power the next era of clean energy.

John Shepherd
Client services director
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www.rullion.co.uk

SCIENCE AND TECHNOLOGY FACILITIES COUNCIL

Our mission is to deliver world-leading national and international research and innovation to discover the secrets of the universe. Our research campuses at Harwell and Daresbury, along with facilities across the UK, support fundamental research in astronomy, physics, and space science.
Our large-scale facilities provide a range of research techniques using neutrons, muons, lasers and X-rays, and high-performance computing. They are used by scientists across a huge variety of disciplines ranging from the physical and heritage sciences to medicine, biosciences, the environment, energy, and more.

STFC has expertise in laser inertia-confinement fusion, with the Central Laser Facility at Harwell hosting some of the world's highest-power laser systems. We also lead UPLIFT, the UK Programme of Laser Inertial-Fusion Technology for energy, funded by the Department for Energy Security and Net Zero. UPLIFT focuses on developing next-generation laser-fusion technologies and science. We also address many of the technological challenges facing the fusion industry, including large-scale magnet design, high-radiation environments, thermal modelling, high-precision manufacturing, and extreme-scale computing.

STFC collaborates with organisations in the fusion sector to make fusion energy a commercial reality. STFC is part of UK Research and Innovation.

Alexandra Bromhead
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www.ukri.org/councils/stfc

SCX

SCX is a design and build engineering business focused on specialist mechanical handling and lifting solutions for nuclear applications. We combine industry-proven COTS components with expert mechanical, electrical and hydraulic design to deliver integrated solutions tailored to customer needs. Whether operating in irradiated environments, handling hazardous materials remotely, or manipulating valuable equipment, our solutions provide the reliability, performance, integrity, safety, and recoverability needed for compliant nuclear lifting operations.

Our nuclear mechanical handling services include front-end engineering design, engineering-detail design, mechanical, electrical, hydraulic, safety, project management and quality assurance, manufacture and fabrication, assembly and test, installation and commissioning, in-service support, maintenance and upgrades.

We adhere to the most rigorous standards of design and build, including ISO 12100 Design Risk Assessment, ISO 13849 Machinery Safety, IEC 61508 Functional Safety, and JSP 975 MoD Lifting Policy.

Our first nuclear crane was commissioned in 1997 to handle high-active waste skips for the decommissioning of Berkeley nuclear power station. Since then, we have delivered handling solutions to numerous nuclear licensed sites, including Sellafield, Nuclear Restoration Services, Urenco, the UK Ministry of Defence, AWE, and for UK Atomic Energy Authority at the European Spallation Source in Sweden.

Darren Falkingham
Market engagement manager
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SIMIC

SIMIC is an Italian engineering company with extensive experience in complex prototypes and components, supporting both one-off and serial production. We also design and manufacture automated bespoke machines, tools, and industrial solutions.

In recent years, SIMIC has built a strong international reputation for providing engineering and manufacturing services across the entire product lifecycle, particularly in highly complex markets such as nuclear and fusion energy.

We have manufactured key components for ITER and other fusion organisations, including Commonwealth Fusion Systems.

Our achievements at ITER include complex prototypes such as the vacuum vessel poloidal sector model, cassette body, dome liner, inner and outer vertical targets, as well as as series production of ITER's toroidal field radial plates and coils. Additional contributions cover ITER's cryogenic distribution boxes, cassette bodies series, blanket cooling manifold systems, and on-site assembly of major tokamak components.

We have also supplied toroidal field coil cases, cryostat components, and divertor coil cases for Commonwealth Fusion Systems in Massachusetts.

SIMIC holds ISO 19443:2018 certification, the nuclear quality standard, supported by over 15 years of compliance with French ESPN regulations and RCC-MR/RCC-MRx codes.

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SIMPLYBD

SimplyBD is a consultancy specialising in business development for the nuclear sector. We help businesses understand the market, identify opportunities and connect with key stakeholders. Our support spans companies across civil nuclear industry, including fusion companies looking to expand into the wider nuclear sector.

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SOLAR FLARE SERVICES

Solar Flare Services is a strategic consultancy supporting companies seeking to enter or grow in nuclear decommissioning, new build, existing operations, and the emerging fusion sector.

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COMPANY DIRECTORY

FUSION PRIME

STEP Fusion

Sara Vermes
External communications officer
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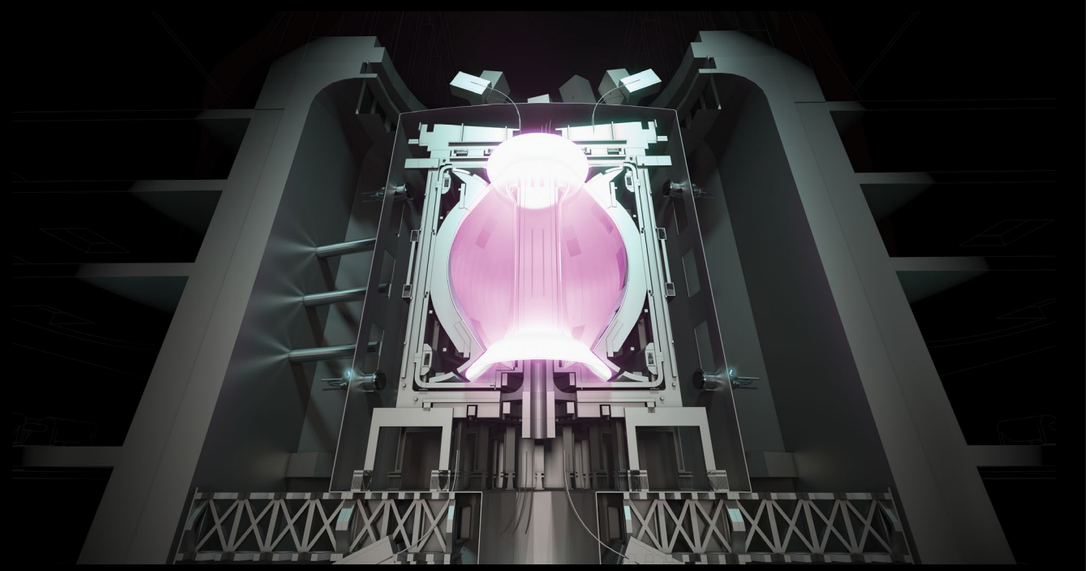

STEP Fusion is delivering the UK's flagship fusion programme to design and build a prototype fusion energy plant at West Burton in Nottinghamshire. The programme aims to demonstrate net electricity from fusion and place power on the National Grid, targeting first operations in 2040.

Building on 70 years of experience in fusion energy development, STEP Fusion is creating the first-of-a-kind commercial fusion power plant at West Burton. The prototype will act as a catalyst for the UK fusion industry, support innovation and deliver job creation for the regions. It is backed by £1.3 billion of government funding to create a viable pathway towards commercial fusion energy.

STEP Fusion integrates industry, engineering, research and funding to construct and operate the prototype plant. It is also designed to catalyse the supply chain, support regional economic growth and position the UK at the forefront of the global fusion energy sector.

STEEL DYNAMICS UK

Steel Dynamics UK is proud to be the world's first metal service centre to achieve ISO 19443 accreditation demonstrating our commitment to nuclear-grade quality, full traceability and the highest safety standards across all operations. Engaging us at the design and early planning stages gives customers a genuine competitive advantage. Our scale, technical capability and integrated processing allow us to improve manufacturability, reduce complexity, remove waste from the supply chain and deliver the lowest total acquisition cost.

With significant levels of stainless steel inventory and extensive in-house processing capacity, including plate de-coiling, large format waterjet cutting and laser processing, and CNC machining, we provide a one-touch solution from raw material to finished components. This ensures consistency, continuity and cost-efficiency.

Our structured supply chain management system ensures best value and best practice, simplifying material and information flow. By partnering with Steel Dynamics UK, customers can eliminate avoidable costs, streamline operations and focus on their core competencies, supported by a supplier fully aligned with fusion and nuclear sector requirements.

We collaborate closely to reduce total cost of ownership and build long-term partnerships that deliver shared growth and lasting prosperity.

Lee Nicklin
Business development director
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STILL CURIOUS

Still Curious is a specialist marketing agency delivering campaigns, content and events. Since 2019 we've been supporting fusion organisations, the supply chain and those looking to engage with fusion; helping accelerate understanding, confidence and progress.

We create digital campaigns that break out of the echo chamber, helping organisations translate complex topics into accessible narratives and connect meaningfully with the people and partners who matter most. We create practical, cross-platform content ranging from social graphics and videos to vox pops, newsletters and explainers. Every piece with a clear purpose to turn expertise into engaging, shareable content.

We also design and deliver events, shaping the idea, format and experience. Focusing on genuine conversation and knowledge-sharing, we can bring people together from across and beyond the fusion industry. Our events include After Hours Intel for The Fusion Cluster and FUSION22 and FUSION24 for UK Atomic Energy Authority.

Let's work together to get fusion on the grid faster.

Rebecca Day
CEO
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www.stillcurious.co

SUPERPOWER

SuperPower Inc. is a world-leading developer and supplier of REBCO high-temperature superconducting (HTS) wires. We manufacture HTS wire using both MOCVD and PLD technologies, with applications including magnets for compact fusion reactors and high-field NMR, electric machines, maglev systems, and medical systems. We are currently focused on increasing our production capacity to meet growing market demand.

SuperPower is a wholly-owned subsidiary of Furukawa Electric Co., headquartered in Tokyo, Japan, which also produces low-temperature superconductors including niobium-titanium and niobium-tin wires for a wide range of applications.

Yifei Zhang
VP of R&D
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www.superpower-inc.com

"Working with The Fusion Cluster has helped with networking opportunities with other suppliers and key UKAEA stakeholders."

Andy Duncan, Sales director, Precision Ceramics

SWANSEA UNIVERSITY

Swansea University is building a nationally significant capability in fusion engineering, combining advanced materials research, digital engineering, and specialist skills development programmes to support the UK's growing fusion sector.

Our fusion engineering programmes are developing the next generation of highly skilled engineers, with MSc and PhD pathways aligned to industry and offering students direct experience of fusion-relevant challenges.

We have internationally recognised expertise in materials engineering, alloy development, testing, imaging, and computational modelling. We have secured major research projects in rapid alloy development for nuclear applications, exploring new steel formulations capable of operating at higher temperatures to improve reactor efficiency. Our strengths in computational modelling, machine learning, image-based simulation, and physics-informed neural networks underpin multiple fusion collaborations.

Swansea University welcomes partnerships to advance R&D, develop new learning and teaching programmes, and create high-value career pathways. Through these efforts, we aim to support the wider fusion supply chain and generate long-term impact for this sector and beyond.

Abi Lewis
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THALES

Thales UK delivers over £1 bn in complex projects each year, working directly with the Ministry of Defence and the Home Office, as well as through partnerships with leading primes and multinationals across civil and defence markets. Our microwave and imaging sub-systems business, based in Paris, is a long-standing partner and supplier to the science community, particularly in particle physics and fusion. Our solutions are used by the world's most prestigious research organisations, including CERN and DESY, as well as in industrial, medical and applied research.

Drawing on world-class R&D capabilities and unique testing facilities, Thales manufactures radio-frequency power sources with unrivalled performance. Our multidisciplinary expertise in areas such as electromagnetism, precision mechanics, plasma physics and heating enables Thales to offer complete solutions, from design to manufacturing, and integration in complex systems. As a leading manufacturer of gyrotrons, Thales is firmly established as a key player in the development of high-power microwave sources for a variety of applications, with a particular focus on ECRH systems for fusion installations.

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THE COCKCROFT INSTITUTE

The Cockcroft Institute is a collaboration between STFC and the universities of Liverpool, Manchester, Lancaster and Strathclyde. It is the UK's largest centre of expertise in particle accelerator research and technology. Our facilities and skills in accelerator science have broad applicability to fusion.

Our facilities include electron and proton accelerators, shielded bunkers, RF and THz testbeds, build and analysis facilities for vacuum systems, and test labs for magnet and cryogenic technologies.

Our expertise in fusion spans microwave sources, multi-physics simulation, plasma sensor development, superconducting magnets, high-plasma physics, ultra-high vacuum systems and radiation modelling, including neutronics.

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www.cockcroft.ac.uk

> **"The Fusion Cluster provides valuable connectivity across the UK and European ecosystem. It provides an unbiased forum that helps drive everyone towards our common goal of delivering fusion energy to the grid."**
>
> **Paul Holligan, VP of commercial and partnerships, First Light Fusion**

COMPANY DIRECTORY

FUSION PRIME

Thea Energy

Madeline Joanis
Communications manager
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www.thea.energy

Thea Energy is advancing commercially constructable, maintainable, and dynamically controllable stellarator fusion systems, representing a paradigm shift from historically complex stellarator architectures and 3D magnets. By leveraging recent breakthroughs in computation and controls, we are reinventing this scientifically mature form of magnetic fusion using arrays of programmable and mass-manufacturable magnets.

We are currently designing our first integrated fusion system, Eos, which will produce fusion neutrons at scale and in steady state. Operating Eos will de-risk the subsequent deployment of fusion energy on the grid via our Helios power plant.

Thea Energy has rapidly expanded the development and manufacturing of its core technologies at its labs and grown its team to over 80 employees.

Recent milestones accelerating the formation of commercial partnerships and first customers include operating the world's first superconducting planar coil magnet array. This has demonstrated that small and simple electromagnets can practically, precisely, and dynamically create and control stellarator-relevant magnetic fields. We have since scaled our manufacturing capabilities and completed a preconceptual design for our Helios power plant architecture.

COMPANY DIRECTORY

FUSION PRIME

Tokamak Energy

Stuart White
Head of communications
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tokamakenergy.com

Monty Rakusen

Tokamak Energy is a leading fusion and superconducting technology company, founded in 2009 as a spin-out from UK Atomic Energy Authority. Headquartered in Oxfordshire at the heart of the UK's fusion cluster, with subsidiaries in the US and Japan, we employ 300 people and have attracted over £250 million in investment.

Tokamak Energy has designed, built, and operates two of the world's most advanced fusion devices: ST40, the highest field spherical tokamak, and Demo4, a world-first high-temperature superconducting (HTS) fusion magnet system. These machines continue to advance cutting-edge fusion and superconducting technologies to drive breakthroughs that transform industries and improve lives.

Established in 2024, our TE Magnetics division is leading the development and commercialisation of transformative superconducting technologies for a range of applications, from power distribution for data centres, electric motors for zero-emission flight, and fast, efficient magnetic levitation transport systems.

Our 2025 acquisition of Leicester-based Ridgway Machines accelerates our ability to deliver high-quality HTS products at scale and provides end-to-end capability. Ridgway Machines brings decades of experience in manufacturing cable insulation and winding machinery across multiple industries. It is now also the leading provider of bespoke equipment for superconducting magnets and cable production.

THE MANUFACTURING TECHNOLOGY CENTRE

The MTC supports the fusion sector by providing practical, innovation-led solutions that accelerate the development and deployment of commercially viable fusion technologies. As an independent research and technology organisation, we bridge the gap between academic insight and industrial delivery, ensuring suppliers are equipped to compete confidently in a rapidly advancing global market.

Our core capabilities span advanced manufacturing, automation and robotics, digital engineering, materials development, joining and welding, additive manufacturing, and precision fabrication. We excel in translating complex engineering challenges into manufacturable, scalable processes that meet the demanding requirements of fusion environments, including high-integrity components and remote handling.

The MTC de-risks innovation for industry by prototyping rapidly, validating emerging technologies, and optimising production routes to reduce cost, improve quality, and shorten time-to-market. Through our industrial-scale facilities and multidisciplinary engineering teams, we enable clients to test, refine, and industrialise solutions without disrupting live operations.

By convening supply chain partners and expertise from across sectors, and championing investment in capability uplift, The MTC strengthens the UK's position in the global fusion landscape, supporting safe, reliable, and economically competitive fusion power deployment.

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UK INNOVATION AND SCIENCE SEED FUND

The UK Innovation and Science Seed Fund (UKI2S) is a £100m venture fund that is focused on the first stages of a company's life ("pre-seed" and "seed" funding rounds). The fund has close links with many of the major public research bodies in the UK, including UKAEA who were a founding partner nearly 20 years ago. The fund has a broad deep tech remit and has built a portfolio of over 60 companies across fields from gene therapy to fusion energy. With the recent increase in momentum in fusion, this is an area of increasing interest for investment and we are looking at investing in SME's with a substantial interest in the fusion field, whether as a spin-out from UKAEA or an existing private fusion company, a supplier of key technology into fusion companies or as a developer of fusion technologies for alternative applications outside fusion itself.

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ukinnovationscienceseedfund.co.uk

ULTIMA FORMA

Ultima Forma specialises in the electrodeposition of metals for a range of advanced engineering applications. We provide net-shaped hot isostatic pressing (HIP) components, thermal management systems, hydrogen barriers using electrodeposited metal, waveguides, metallic protection for composites, optical sensors, and vacuum containment systems for cryostats. Additionally, we use our proprietary AI-agent technology to dig into materials and manufacturing capabilities providing deeper insights for concept design.

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COMPANY DIRECTORY

FUSION PRIME

Type One Energy

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UK representative
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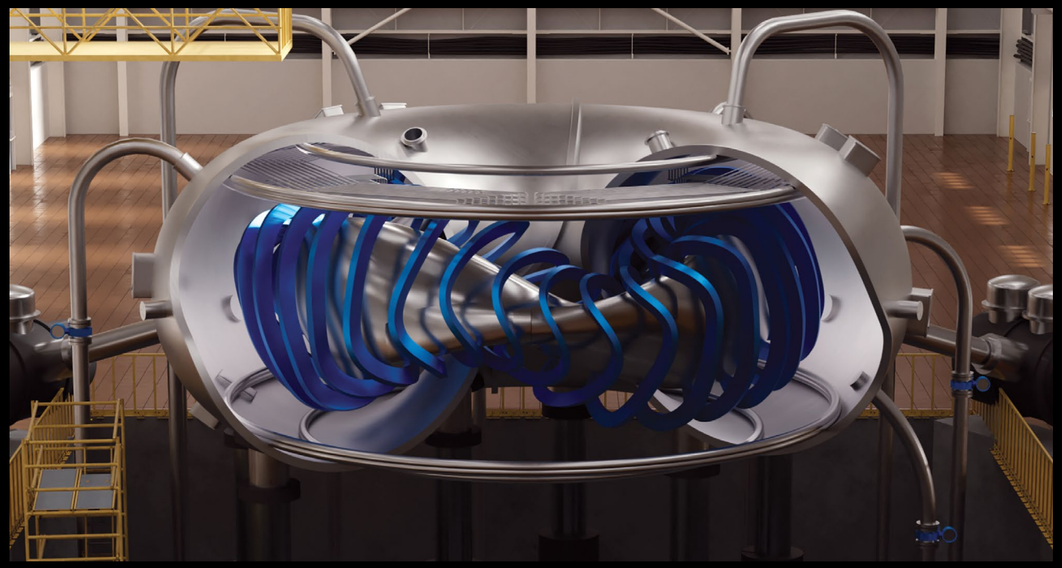

Type One Energy was formed by a team of globally-recognised fusion scientists with a strong track record building state-of-art stellarator fusion machines, together with veteran business leaders experienced in successfully scaling-up companies and commercialising energy technologies. We are applying proven, advanced manufacturing methods, modern computational physics and high-field superconducting magnets to develop our optimised stellarator fusion energy system.

Type One Energy pursues a low-risk, accelerated schedule approach to a viable fusion pilot plant. It benefits from the Type One leadership team's exceptional global network of fusion community partners and collaborators. These relationships allow Type One to avoid the need for a large-scale fusion science validation device. As a result, Type One Energy will proceed directly to design and construct a fusion pilot plant that is intended to achieve stellarator fuel ignition conditions and put fusion electrons on the grid.

UNIVERSITY OF BIRMINGHAM

In the School of Metallurgy and Materials at the University of Birmingham, we explore how materials behave and how they can be used and improved. Working closely with industry, much of our research is focused on reducing environmental impact on the world, and includes materials and technologies for electrification, recycling of critical materials and developing green-energy solutions.

We have a critical mass in the academic community and our research focuses on the engineering of fusion materials, from alloy design and manufacture to performance testing. Our work is underpinned by a throughout-materials characterisation across multiple length and time scales, as a springboard to new materials and component qualification for fusion plant technologies. We simulate real fusion environmental conditions and synergistic effects, using radiation sources and thermo-mechanical and corrosion testing rigs. This allows us to accelerate materials testing and feed back into computational materials design and down-selection.

Enrique Jimenez-Melero
UKAEA joint chair in materials for fusion
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www.birmingham.ac.uk/schools/metallurgy-materials/index.aspx

UNIVERSITY OF YORK NUCLEAR PHYSICS GROUP

We have a long tradition of building state-of-the-art radiation detectors and instrumentation for international facilities and bespoke commercial applications. As part of the School of Physics, Engineering and Technology, we collaborate seamlessly with colleagues across electronic engineering, materials science, robotics, autonomous systems, and fusion.

Our world-class facilities for detector development and characterisation include analogue and digital data acquisition systems, all classes of radioactive sources including thermal and fast neutron sources, a highly collimated gamma-ray beam scanning system for detector characterisation, large vacuum chambers, and temperature-regulated chambers. With a proven track record in developing detectors for international physics experiments and a growing portfolio of industry projects, we provide reliable solutions to customers' radiation detection problems or innovative approaches to tackle them collaboratively.

Adam Featherstone
Business development manager
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www.york.ac.uk/physics-engineering-technology/research/nuclear/nuclear-applications

VEOLIA NUCLEAR SOLUTIONS

Veolia's Nuclear Solutions business delivers engineering, technology and operational services across the nuclear lifecycle, with particular expertise in remote handling and radiation-tolerant systems for complex environments. Originating as a spin-off from JET, our UK team has supported ITER since 2005, contributing to fusion challenges including the design of radiation-tolerant handling systems, control architecture, and operator interfaces for high-radiation environments.

This fusion capability is underpinned by extensive experience across international nuclear programmes. Our projects include deactivation and decommissioning at Sellafield and Dounreay in the UK, programmes for the CEA and EDF in France, at Hanford and Oak Ridge in the US, and at Fukushima in Japan, where we have delivered practical technologies and on-site operational support in complex and hazardous conditions.

In 2025 and 2026, we worked with UK Atomic Energy Authority through the Fusion Futures Industry Capability programme, developing radiation-tolerant automation and delivering the TRL0+ upgrade realisation for the DEMO Remote Maintenance Test Facility. Drawing on our full Nuclear Solutions portfolio and the strength of the wider Veolia group, we deliver practical, deployable capability for current and future fusion programmes.

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COMPANY DIRECTORY

FUSION PRIME

UK Atomic Energy Authority

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www.ukaea.org

Monty Rakusen

The UK Atomic Energy Authority (UKAEA) is the national organisation responsible for the research and delivery of sustainable fusion energy. It is an executive non-departmental public body, sponsored by the Department for Energy Security and Net Zero.

UKAEA runs the fusion machine MAST-Upgrade (Mega Amp Spherical Tokamak) and is delivering the transition of JET from plasma operations to repurposing and decommissioning. The insights gained from this process will contribute to the advancement of sustainable future fusion power plants.

UKAEA is also a key partner in STEP (Spherical Tokamak for Energy Production), a major technology and infrastructure programme that will demonstrate net energy from fusion, fuel self-sufficiency and a route to plant maintenance. STEP is being delivered by UK Fusion Energy, a wholly owned subsidiary of UKAEA Group, which will design and build the prototype plant at West Burton site in Nottinghamshire, targeting first operations in 2040.

Beyond STEP, UKAEA leads the Fusion Futures programme that aims to foster world-leading innovation and stimulate industry capacity for future fusion power plants. UKAEA also undertakes cutting edge work with research organisations and the industrial supply chain in a wide spectrum of areas, including robotics and materials.

VERDER SCIENTIFIC

Verder Scientific provides advanced technologies that support the development and scaling of fusion energy systems. Bringing together a portfolio of leading brands, including Retch, Carbolite, Microtrac, QATRM and Eltra, we specialise in laboratory scale milling and sieving, furnaces and ovens, particle characterisation, materials testing, combustion elemental analysis and thermogravimetric measurement.

Our solutions enable precise and reproducible workflows for developing ceramics, metals and novel composites used in plasma-facing components and structural applications within fusion reactors.

Built on extensive experience supporting nuclear energy, defence research and advanced industrial facilities, we work closely with research institutes, universities and industrial partners worldwide. Our collaborative approach allows us to develop tailored solutions for the fusion sector, including systems optimised for glovebox integration and operation.

Tom Gould
Managing director
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www.verder-scientific.com

WRIGHT ENGINEERING

Wright Engineering is a privately owned engineering company with over 38 years' experience delivering complex turnkey engineering projects for heavy industry. With a workforce of more than 150 and headquarters in Worksop, our purpose-built facilities include an assembly shop and three fabrication units alongside on-site shotblast and paint facilities.

Originally established in the mining sector, we have built deep expertise in bulk materials handling and third-party equipment installation. We operate across diverse sectors, including power, renewable energy, quarrying and aggregates, building products, recycling, food, ports, and construction, and have developed a strong reputation for executing projects in challenging environments.

Our capabilities span project management and full oversight over CDM sites, mechanical and structural design using advanced CAD tools, in-house fabrication with stringent quality standards, and large-scale installation all delivered by a skilled workforce. We are accredited with ISO 9001 and hold a range of industry certifications that reflect our commitment to quality, safety and training.

Philip Chow
Business development manager
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ZANON RESEARCH AND INNOVATION

Zanon is internationally recognised for supplying high-technology systems and components, including ultra-high vacuum equipment, cryostats, cryomodules, vacuum vessels, special components and RF cavities for both superconducting and non-superconducting applications. We have 30 years' experience in electron beam welding and integration within ISO 4 and ISO 7 cleanroom environments.

We were established in 2020 following SIMIC's acquisition of the Ettore Zanon business, ensuring the continuation of its century-long legacy. This has preserved technical know-how, experienced personnel, equipment, qualifications, certifications and licenses.

We partner with customers worldwide to deliver high-technology products and advanced engineering solutions, creating value through diversification, continuous development of expertise, and close collaboration throughout the design and development phases.

Ongoing improvement in product quality, together with a strong commitment to health and safety, remains central to its operations.

Ambra Gresele
Project management office and commercial manager
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www.zanonresearch.com

"Working with The Fusion Cluster has allowed Bilfinger to engage in this new and emerging industry."

William Foster, BD, Bilfinger

Reports. Worth reading.

THE FUSION CLUSTER

thefusioncluster.com/content-hub/#downloads

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