

A Comprehensive Guide to the Chemical Processing Sector in North East England





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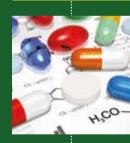
#### Case study

Our polymer engineers supported CRP Ltd with a KTP research project to gain an enhanced understanding of key process variables for polymer perfluoroalkoxy (PFA) products. The KTP enhanced CRP's abilities in PFA moulding to allow it to mould both larger and more complex components, making it more competitive in an international market.

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#### **WELCOME**



LOUISE GWYNNE-JONES PR & Communications Manager, NEPIC

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Dear Readers.

It is with great pleasure that I welcome you to the NEPIC Directory 2018. First and foremost, I would like to thank this year's contributors and supporters - and not to mention the great team behind its production for without you this flagship publication would not be possible.

One of our key aims in producing the NEPIC Directory is to showcase the world-leading businesses located here and highlight the competitive advantages that are shaping our region and future. We also seek to cast our nets wide to explore themes and issues by providing relevant, insightful and challenging content from a range of perspectives from across the industry.

Whether you are a buyer seeking innovative solutions, a supplier looking for new opportunities, a business set on growth through collaboration and an investor looking to put down roots, our goal is to serve your needs - the needs of a diverse community of companies and individuals involved in doing business in this great place.

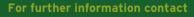
We can't create a community by ourselves. Only with your help will we create a broad and thriving community that, in its own right, highlights the outstanding opportunities on offer, showcases the unrivalled experience we possess and addresses the unique challenges we face.

Together, let's give this region's chemical processing sector the attention it deserves and make sure our network and your businesses ao from strenath to strenath.

Thank you for joining us as readers and as always, we welcome comments and suggestions that could be beneficial to the future success of this publication.

With best wishes

Louise Guynne-Jones





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#### CHAIRMAN'S NOTE



MARK KENRICK
NEPIC Chairman &
Chief Executive Officer,
px group

As the new Chairman of NEPIC I'd like to welcome you to the latest NEPIC Directory which I'm sure you will find extremely valuable. From the fact that you are reading our Directory, I assume you are involved, directly or indirectly, in the process industry here in the North East of England. As such you will know that the sector continues to be a vibrant and diverse one contributing significantly to the region's economy and wellbeing.

The last 12 months have certainly been interesting and the next 12 show no signs of being any different. Brexit discussions have ground inexorably on without any real clues so far as to what we can expect but as the North East continues to be one of the very few net exporting regions in the UK, with a significant proportion of those exports coming from NEPIC members, it is clear what we need from Brexit to ensure the ongoing sustainability of our sector. As described by the Chemical Industrial Association (CIA) we must have frictionless, tariff free trade: regulatory consistency and access to, and movement of, skilled people.

An area of tangible progress driven by the impending Brexit has been the discussions on the establishment of a Free Port around the River Tees that, along with the redevelopment of the former SSI land by the South Tees Development Corporation, brings huge potential for growth and with that opportunities for NEPIC members.

The two Local Enterprise Partnerships in our area have continued to develop their industrial strategies and activities over the last year and, with the establishment of the Tees Valley Combined Authority (TVCA), we are seeing much more local influence being brought to bear on the Government's 'Northern Powerhouse' concept than could

probably have been said this time last year.

To paraphrase the TVCA, the North East is a region that is already well on the way but needs to do more to become a region that is truly sustainable. To achieve this, we must ensure that we are highly productive, highly innovative, highly export focussed, highly skilled and high in growth potential.

As a sector we already tick these boxes and with growth from major new projects in progress such as Sirius Minerals, MGT, Peak Resources, and work being carried out across our region to define and deliver a sustainable circular economy we are, and must remain, at the heart of these strategies.

Looking ahead, how would I like NEPIC to be perceived? First and foremost, as a growing organisation that brings tangible and demonstrative value to its members. Secondly, as regional representatives of the process industry, ensuring right, consistent messages are included by the CIA, the LEPs, TVCA and HMG in strategy formulation and execution. And lastly, as a key player in the development and execution of a process industry focussed industrial strategy nationally, locally and across the Northern Powerhouse region.

As I said at the start, welcome to the NEPIC Directory 2018. I am positive it will be of great value to you and I look forward to you all taking full part in the success of NEPIC and our region. Finally, I'd like to take this opportunity to thank Ian Swales for his chairmanship of NEPIC over the last three years and wish him well in what he says really is retirement!



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#### CHIEF EXECUTIVE'S FOREWORD



PHILIP ALDRIDGE
Chief Executive, NEPIC

Hello. I would like to introduce myself as the recently appointed Chief Executive of NEPIC.

Although new to the role, I'm not new to the organisation having joined 6 years ago to help deliver the business acceleration for SME's programme. Since then I have been leading the SME Growth project in the north of the region and looking after NEPIC's pharmaceutical members and their supply chain.

It is well known that companies in clusters outperform those without the geographical proximity of suppliers, collaborators and competitors. We have a natural cluster of process industries in North East England with all the advantages of a large skilled labour pool, a wide range of specialist suppliers and potential collaborators to solve collective problems. An advantage of 'our' cluster is that we have such a variety of processing companies ranging from petrochemical, fine and speciality chemicals, to medicines manufacturing; both small molecule and biopharmaceuticals. These are supported by a strong science and technology base, exemplified by our seven

university members and the various parts of the Centre for Process Innovation.

NEPIC exists to enhance the natural synergies and business opportunities in this diverse process sector. Many more valuable connections are made through NEPIC than would otherwise be made naturally. We can achieve this, not because we are particular technology experts, but because we understand the business of the sector and can facilitate introductions in an intelligent way. This not only helps member companies to thrive within the cluster, it leverages the largest industry cluster to the benefit of the region's economy.

We can bring greater benefit to individual members and to the regional economy if we grow our membership base, thereby increasing the potential for positive member to member interactions. This will be one of my goals as NEPIC Chief Executive. We achieve the high degree of organisation to organisation connectivity through a range of methods. We hold a major annual conference, Meet the Members, which aims both to showcase the region's process sector strengths and opportunities but also to put people together.

At the other end of the scale, we host a monthly Cluster Connect meeting, giving members the opportunity to introduce themselves and make connections and contacts. We also hold specialist conferences covering Asset Management, Bioresources and Pharmaceuticals - reacting to current trends and challenges. Using European money, we

have helped many hundreds of SMEs to sell into our sector to the benefit of these small companies and our members. Ultimately, we make many introductions between members that would otherwise not happen.

We will continue to work closely with the Local Enterprise Partnerships to achieve their economic goals and take our message of the importance of the North East process sector to Westminster. We will maintain an active role with bodies that can influence government policy such as the Chemistry Growth Partnership and Chemical Industries Association. Nationally important issues affecting our industry, such as Industrial Carbon Capture & Storage, the Circular Economy and the Hydrogen Economy, will also have NEPIC involvement with the intention of making sure our members benefit.

If your organisation is a NEPIC member, please get in touch and let me know how you think we are doing. If you are not a member, please also get in touch and learn more how we can help your business. These are uncertain times, but I am confident that if you join NEPIC, and get involved with our network, your organisation will benefit from the increased business interactions we provide.

Philip Aldridge



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### ABOUT NEPIC

NEPIC is an award-winning membership cluster organisation working with the chemical-using industries in the North East of England.

We cover a broad sweep of chemistry-focused industries including petrochemicals, polymers & materials, fine & speciality chemicals, pharmaceuticals, biotechnology and renewables.

Together with our member companies, we work to build upon the already powerful industrial base located here and make this region one of the most competitive and successful chemical-processing locations in Europe.

We are privately-owned, led by industry and work to support cluster members to become successful and sustainable organisations, in a collaborative business environment that helps them to grow.

Formed in 2004, NEPIC was the result of the merger of two industry bodies - the Teesside Chemical Initiative, who represented the heavy base chemical in the south of the region, and the P&S Cluster who worked with the pharmaceutical and life science businesses that were predominately based towards the north.

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AND SUSTAINABLE
ORGANISATIONS IN
A COLLABORATIVE
BUSINESS ENVIRONMENT.

Steered by Michael Porter's theory of clustering for competitive advantage, NEPIC's remit was clear - reconnect the fragmented industrial sectors - a result of ICI's exit from the region in the late 90's - and create an industrial powerhouse to rival all other global locations.

In 2014, NEPIC was the first UK cluster to receive the GOLD standard ESCA accreditation for cluster excellence - and in 2016, achieved £3.5 billion of Gross Value Added to the region since inception.

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## BACK TO THE FUTURE

### SABIC'S VISION FOR RETURN TO WILTON SITE'S GLORY DAYS

The Wilton International Site can return to its "glory days" as part of a new industrial revolution on Teesside. That's the exciting message from the new man in charge of SABIC's Teesside operations, Daren Smith (pictured left).

In its heyday of the late Sixties and early Seventies, former chemical giant ICI employed up to 25,000 people on what was the largest chemical complex in Europe.

Now ICI is no more and the past ten years have seen the site endure difficult times with a series of plant closures by firms such as Dow, Invista, BP and Croda as a result of the economic downturn and fluctuating global markets.

But many more continue to thrive.

SABIC leads the way. Its recently upgraded Olefins Cracker remains the beating heart of Teesside's process industry.

Lotte Chemical UK, Huntsman Polyurethanes, Ensus, Sembcorp Utilities and Suez all run significant operations on the site too. And much more is on the way, with four major developments currently at various stages of preconstruction planning. But SABIC's newly appointed site director believes the remaining blue-chip companies, who between them employ around 1,500 Teesside people and engage hundreds more contractors and supply chain partners, could form the focus of a new beginning for the site.

Smith, who took on his permanent role at the start of 2018 after six months in an acting position, is confident that far better days are ahead if the right decisions are made.

And he reveals that high-level talks are ongoing within the region to devise a strategy that would see a series of ongoing investments and plant openings in the years ahead, creating hundreds or even thousands of high-quality local jobs for skilled professionals.

Sitting in his office in the Wilton Centre, Smith says: "The site's ICI days embodied many great things for the Teesside region, and maybe, just maybe, we can make that happen again - it would be in a different way, of course, but it could happen.





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...continued.

"We've got the building blocks on the site to recreate the glory days of Teesside's chemical industry.

"I get a big buzz out from getting up in the morning and coming to work here, with all the great things we are doing on the site. But it's not just about sustaining what we have - it's about growing for the future too.

"What excites me is what could come for Teesside's chemical industry, with SABIC at the heart of it."

Smith believes that repairing the region's broken supply chain is the key to securing a thriving future for the Wilton site.

He explains: "With its high feedstock flexibility, SABIC's Olefins Cracker is one of the most cost-competitive crackers in Europe.

"Right now we liquefy a substantial part of our ethylene production before it is transported to customers in Europe as well as to SABIC's polymer plants on mainland Europe. SABIC is managing the product flows across its sites in Europe in a cost-efficient manner but there is further cost-saving potential.

"So why not upgrade those ethylene molecules and add value to the product here on Teesside? We could take them into high or low-density polyethylene, or we could upgrade them into ethylene oxide and re-start the ethylene

glycol and surfactants chain that we lost here some years ago.

"In the past, other companies produced ethylene oxide and others upgraded that into surfactants. Unfortunately, during the downturn, companies took business decisions to move their manufacturing bases from Teesside, some moved out of the business and others went under.

"But there is the potential to have those supply chains again and re-establish the UK surfactants sector here on Teesside."

Smith says he is determined to drive the growth agenda, but is at pains to emphasise that SABIC cannot do it all alone.

He continues: "SABIC is a growing corporation, with worldwide aspirations. It has many other assets and growth capabilities to think about around the world, so our Teesside site is competing internally for finance and development opportunities.

"We can start the conversations and show willing. But it can't just be SABIC - it needs collaboration and it needs investment from other companies."

Smith reveals that talks are ongoing with the government's Department for Business, Energy and Industrial Strategy (BEIS) about the potential for the Tees region.

"There are principle discussions going on at a high strategic

WE'VE GOT THE
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INDUSTRY.

level with BEIS," he says.

"We've talked about industrial strategy, broken supply chains, the excess of ethylene we have here and the type of things we can do with it.

"There is a vast site at Wilton - it covers 2,000 acres, the equivalent of 1,300 football pitches - with all the facilities, utilities and support networks needed to re-establish a world-scale chemical manufacturing complex."

And he insists that there has never been a better time or opportunity for Teesside to seize the day and create a strong, sustainable future at the heart of the process sector.

"Everything we do has to build a sustainable future for the Teesside region, because chemical manufacturing is not only part of our heritage but part of our ongoing lifeblood.

#### **PETROCHEMICALS**

"Right now we find ourselves in a unique position in terms of the new mayor, the network he brings and the influence he is able to leverage for the Teesside region.

"So now is the time for Teesside - and SABIC's operations here - to move forward, look beyond simply surviving and dare to dream."

#### WILTON WATCH

These four developments will create hundreds more Teesside jobs when work gets underway next year and beyond:

- Construction work is scheduled to begin next year on a processing plant for polyhalite rock from the new Sirius Minerals mine near Whitby, as part of an overall £2bn development.
- Also in the pipeline is a mineral processing plant, with Aussie firm Peak Resources awaiting planning permission to build a £70m unit to process rare earth ore that will make the core ingredients for magnets used in such things as mobile phones and motors.
- Sustainable technology start-up ST2 is proposing to build a large data centre on land formerly occupied by a Croda surfactants plant.
- Planning permission is being sought by Sembcorp Utilities to build a new £700m gas-fired power station on the site of the former Enron/GDF Suez power plant.

#### WE'VE ONLY JUST BEGUN

SABIC's Teesside site director Daren Smith says levels of confidence and pride within the company's 500-strong workforce are higher than he has known but the Teesside operation must continue to innovate to retain its competitive edge.

The past two years have seen the global chemical giant invest multi-millions into upgrading its Olefins cracker at Wilton, near Redcar, resulting in a successful 2017 and reasons to be confident about the years ahead. But, he insists, the hard work starts now.

Smith, who has risen to head the company's Teesside operations from humble beginnings as an apprentice at Darlington engineering firm Cummings, said: "In 2017 we had an excellent year for manufacturing.

"I see the plant's reliability improving, I see the workforce aligned, engaged and motivated, and I see a real sense of purpose, optimism and ambition to a far greater level than I've known in my 17 years with the business.

"We've come through some difficult times to achieve the successful implementation of our Gas Cracking Project over the last two years, bringing in competitively advantaged feedstock to Teesside and delivering above expectation.

"So are we succeeding? Emphatically, yes, we are. NOW IS THE TIME FOR TEESSIDE - AND SABIC'S OPERATIONS HERE - TO MOVE FORWARD, LOOK BEYOND SIMPLY SURVIVING AND DARE TO DREAM.

"But I will not allow us to sit back on our laurels and think that completion of the Gas Cracking Project was it because we've only just started.

"Now we need to fight to retain our competitive edge. Having some of the cheapest ethylene molecules in Europe is a statement that will not stand the test of time if we don't continue to innovate and build on our privileged position to create a sustainable future."

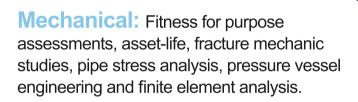
Feature courtesy of Tees Business

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The Free Port concept dates back 2,500 years when a small Greek island offered respite from import taxes in the hope of attracting the support of merchants. Today, they are a popular tool used by Governments across the world to help boost trade and manufacturing in industrial areas as markets become more globalised. Goods can be imported, turned into higher value products and then re-exported from within the freeport zone without incurring tax and duties.

here are approximately 3,500 Free Ports worldwide, employing 66 million people across 135 countries. The United States alone is home to more than 250 zones, handling \$750bn of merchandise and playing a significant role in retaining, reshoring and growing domestic manufacturing activity and boosting trade. So, with not a single free trade zone on mainland Britain, why now and why Teesport?

As a member of the single market, the UK does not have control over its trade policy, is not able to set its own customs duties and therefore Free Trade Zones do not exist in the UK or anywhere in the EU. However, Brexit provides the UK with new found freedom and the opportunity to significantly increase manufacturing. In 1952, 25 per cent of all global

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manufacturing exports came from the UK and rightly earned us the title of the 'workshop of the world'. Today, that figure stands at just 2 per cent.

Despite this, our Ports remain among the World's most advanced. British ports handle 96 per cent of UK trade and are the second largest ports sector in Europe. The North of England accounts for more than a third of national port capacity and with the potential to create 86,000 jobs if Free Ports are as successful here as they were in the US, it is no wonder that all eyes are on Teesport.

Teesport, which handles 4,500 vessels and 27 million tonnes of cargo a year, has strong structural advantages towards being favoured for free port status including a deep-water facility, providing lock-free access to the sea and strong road and rail services. But more importantly, it's integral to Teesside's manufacturing complex which includes chemicals, engineering, energy and automotive.

Furthermore, the South Tees Development Corporation, the biggest regeneration programme outside of London, has set out



its ambition to create 20,000 additional jobs in high value manufacturing over 25 years, adding £1bn to the local economy through the transformation of the former SSI site.

In 2017, we welcomed Prime Minister, Theresa May, to discuss some of the key national infrastructure projects taking place at the Port and most recently it was the turn of Brexit secretary, the Rt Hon David Davis during his visit to the region led by Tees Valley Mayor, Ben Houchen.

Using Teesport as a base to deliver his landmark speech formally setting out the UK's aims for the transition period following the withdrawal of the UK from the EU. Citing the region as the UK's exporting Capital, he went on the talk about the potential opportunities a post-Brexit Britain may present including the opportunity to establish Free Port status, setting out a positive vision for future trade and investment when markets become more globalised.

Mr Davis set out his plan for a timed implementation period, following the UK's exit from the EU, providing certainly and clarity to businesses.

Addressing the specific opportunities for Teesport and the region, Mr Davis assured the people of the Tees Valley that the implementation period would continue to make the area successful. He said the "prize" of the best possible access to the EU, while opening up greater

access to the rest of the market, would be enormous for Teesport above all else. Mr Davis went on to say that any transition period would and should not preclude the UK from signing independent trade agreement entering force post-implementation.

PD Ports' COO, Jerry Hopkinson, said:

"The Minister's speech at Teesport is a welcomed step forward in understanding the potential opportunities for international trade that Brexit might deliver.

"What is important in the coming months is ensuring we have the best possible conditions in which we can attract further inward investment and create a platform for growth and help to develop long-term sustainable industries for the Tees Valley and regional economy.

"Free Port status at Teesport would act as a catalyst to remove trade barriers and enable industry to thrive; creating employment and capitalising on the readily available skills the region is globally renowned for."

Teesside's industrial heritage is steeped in the very skills and competences that would complement any new manufacturing facilities attracted to the region through inward investment. Teesport itself has the capacity to accommodate growth derived from its current available land bank and river frontage whilst also being the gateway to 4,500 acres of brownfield industrial land that was dominated by the former SSI steelworks.

THE PRIZE OF THE BEST POSSIBLE ACCESS TO THE EU WOULD BE ENORMOUS TO TEESPORT ABOVE ALL FLSE.

The combined geography and physical infrastructure, river, ports and land bank, linked to skills and competence in the region represents a unique opportunity for the UK to 'pilot' Teesport as a 'Free Port'.

Quick and simple to implement, Free Ports would provide a bold message to the world, an almighty boost to British manufacturing and employment growth where it is needed most. Let's offer our ports the freedom to recapture their proud history as the engines of our economy and seek to regain our manufacturing crown.

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### SOUTH TEES: THE SINGLE BIGGEST DEVE LOPMENT OPPORTUNITY IN THE UK

In October 2017, an ambitious 25-year plan to redevelop a huge area south of the Tees and create 20,000 jobs was announced by Tees Valley Mayor, Ben Houchen. Hailed the beginning of a new era of economic development in Tees Valley, the transformation of the 4,500-acre former SSI steel works site would lead to a hotbed of new industry and pump an additional £1 billion into the Teesside economy, creating well paid jobs in new

pearheaded by the South Tees Development Corporation (STDC), the Master Plan proposed growth to the Tees Valley economy through the creation of a world-class industrial park on the River Tees. And, with a focus on industrial investment, would create skilled jobs, heavily focused on manufacturing innovation and advanced technologies within a high value, low carbon, diverse and circular economy.

In addition to the four industrial zones

Announcements and developments Since Prime Minister Theresa May officially launched the South Tees Development

Corporation, the first Mayoral Development Corporation outside of London, significant developments have been achieved. First came the Autumn Budget announcement that saw a £123 million cash boost to support the ongoing maintenance and clean-up of the former SSI site, which provided a significant kick-start to proposals.

Since then, STDC revealed that over 100 expressions of interest had been received from global companies looking to base themselves here. During a key-note speech in May 2018, the Mayor disclosed that we will soon see the first announcement of private investment on this site since the South Tees Development Corporation was written into statute. This anchor project of "national significance" is a multi-billion-pound energy plant set to create thousands of jobs and many more across the supply chain.

South Tees Development Corporation welcomed a VIP delegation from Heathrow as part of its bid to become a logistics hub for the London airport's proposed expansion. Logistics hubs will help to make sure that businesses from across the UK can be part of the supply chain for Heathrow's new third runway. At these hubs, components of the airport will be pre-assembled before being transported to the London site. Continues...

industries.

identified for potential development, the Master Plan's vision also incorporates significant transport connectivity and infrastructure proposals, along with costal community zones, heritage preservation and the enhancement of environmentally important habitats.

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...continued.

Heathrow expansion is considered to be a critical infrastructure project for the UK that is expected to deliver up to £5billion in economic benefits and 5,100 jobs across the North

Furthermore, Sirius Minerals was reported to be the first company to sign up to taking a lease on land for storage facilities, as it builds its £3.2bn polyhalite mine and Wilton processing facility, and industrial giant, Ineos, has indicated that the site may be in the running for its new UK car manufacturing plant.

A landmark partnership agreement with energy and utilities firm, Sembcorp, has too been signed to maximise investment opportunities across both the STDC and Wilton International Sites. Both sites have seen massive interest from global investors, with Wilton securing more than £1.5billion of new investment in the past 15 years.

To ensure that both areas fulfil their potential and attract the right kinds of businesses to the most appropriate sites, STDC and Sembcorp have now signed a Memorandum of Understanding an agreement to jointly promote investment and direct businesses to the most appropriate site for their requirements.

#### Ownership and responsibility

However, as businesses line up to invest, the final piece of the jigsaw - securing ownership of the land - is required and Mayor Houchen has "every confidence we will find a solution". The former SSI site is currently owned by the Official Receiver and charged to three Thai banks. An in-principle agreement was made between the STDC and the banks to buy the land.

A final agreement will need to be agreed by the Official Receiver and the boards of the banks, which is hoped can be progressed before the end of 2018. A significant milestone for the corporation, these developments would allow the site to be bought back and speed up regeneration efforts and get spades in the ground sooner than previously thought.

The UK government currently pays for the safety, security and upkeep of the former SSI steelworks site, through the South Tees Site Company that manages the site on behalf of the Official Receiver.

WHILE MANY HAVE
FOUND A NEW PATH IN
LIFE FOLLOWING SSI,
WE OWE IT TO THE
FORMER WORKERS,
THEIR FAMILIES AND
THE REST OF THE TEES
VALLEY TO MAKE A
SUCCESS OF THE
STDC.

A draft transition plan has been put to the Cabinet of the Tees Valley Combined Authority for approval to transfer the long-term responsibility of the former SSI steelworks site from London to Teesside.



In preparation for the transfer of ownership and responsibility, STDC is developing a business case to government which outlines how much cash will be required from central government to allow the STDC to manage the financial risks of taking responsibility of the land.

#### **About South Tees**

Situated at the mouth of the River Tees, the area benefits from river access and encompasses the major port facilities of Teesport. Importantly, the area includes significant operators such as PD Ports, Redcar Bulk Terminals, British Steel, BOC and Northumbrian Water, and it also benefits from the major industrial complex of Wilton International, operated by Sembcorp, all of which are critical to realise successful outcomes for the redevelopment and regeneration programme.

The South Tees area has some of the lowest operating costs in the UK, with rents and rates about half of most major cities, and a quarter of those in London and Aberdeen. The area is also home to a large, experienced and highly skilled workforce, with the lowest staff turnover of any UK region, guaranteeing companies investing in South Tees access to a secure, highly efficient workforce.

One of the key commitments of the Devolution Deal, which was signed in October 2015, was the opportunity to be given the authority to create new Mayoral Development Corporations (MDCs) within the

Tees Valley area. MDCs can draw on a wide range of powers, covering infrastructure, financial incentives, regeneration and land acquisition, devolving powers from central government to the local area. The decision to create a Development Corporation for South Tees was part of the area's response to the closure of the SSI Steelworks and the wider strategy to drive forward growth and investment, create jobs and support local communities.

#### Reflection

Speaking at an event to mark one year since his election as Tees Valley Mayor, Ben Houchen, reflects on the SSI closure.

He said:

"But we can't talk about the Development Corporation without mentioning the major reason for it in the first place. 2,000 reasons in fact. 2,000 men and women who lost their livelihoods on that fateful day in 2015. An end to 170 years of steelmaking on Teesside. I remember when the news broke. We all do. I pray that the people of Teesside never have to endure such a seismic shock ever again.

"So, two and a half years on, I want us to take a moment to recognise what has been achieved by the SSI Taskforce. 98 per cent of those who lost their jobs are back in work. 300 new start-ups supported. 23,700 training courses funded. £50 million invested. These aren't just numbers on a spreadsheet – these are real people, real families and real communities. While many have found a new

path in life following SSI, we owe it to the former workers, their families and the rest of the Tees Valley to make a success of the South Tees Development Corporation."

#### **Ensuring local procurement**

Ensuring local procurement is a key part of the Master Plan and vitally important to its long term success. The vision of the Development Corporation will see the area completely transformed and businesses must be ready for the supply chain opportunities that will present themselves.

NEPIC fully endorses the South Tees Development Corporation's vision and ambition, which has the potential to transform the entire local economy, providing substantial numbers of well-paid jobs and modern and innovative manufacturing facilities that could compete with anywhere on earth.

Having engaged NEPIC members via an industry specific consultation event with STDC, and formally fed into the process, we will continue to keep members informed about the exciting prospects taking place and help them to make the most of those opportunities for their own businesses.

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## INNOVATION & COLLABORATION

#### COLLABORATION BETWEEN LARGE & SMALL COMPANIES CAN PRODUCE THE BEST INNOVATION

The power of collaborative innovation has been brought to the fore by a far-reaching report by commercial law firm Womble Bond Dickinson, highlighting the rewards that can be delivered when the Davids and Goliaths of business work together.

The firm's research - Close Encounters:
The Power of Collaborative Innovation
- revealed that in the last four financial
years, large organisations have
ploughed £102bn into 5,447 deals with
UK SMEs, far outweighing the £62bn big
companies have spent on R&D.

In late 2017, North East business leaders, advisers and lenders came together to share their thoughts on the report's central topics. Hosted in Newcastle by The Journal and Womble Bond Dickinson, leaders from a range of sectors discussed everything from cultural difficulties and managing expectations to how we should look to European counterparts to make gains.

Delegates at the event agreed that small operations were often better at coming up with innovative ideas but they often lack the heft, resource and - most importantly - the funds to bring those ideas to fruition.

Within large organisations these issues are reversed as they have plenty of resource plus the ability to deal with regulatory environments well, but they are not as nimble because of the levels of management and policy that lies ahead. With this in mind, working together makes perfect sense - but managing expectations of both sides can often be a fraught, balancing act.

Kevin Robertson, Womble Bond Dickinson's head of office for Newcastle and head of the projects and procurement team, said: "It's about the dynamics of those different businesses - we act for the smaller, innovative, disrupting businesses but also the big PLCs.

"When you speak to both parties they both want to achieve the same thing but the concerns and fears of the smaller guys as to what their intellectual property is and whether they will get swallowed up and lost in a large commercial beast, as opposed to the larger companies thinking about how they will extract value from this investment."

...continued.

Andrew Bayliff, director at Innovia Films' Carlisle facility, said his business had a mixed success rate at getting collaborative deals over the line. The firm is best known for producing plastic for the newer Bank of England notes, and it also works within packaging markets, producing film labels for a range of markets including tobacco, food and drink, cosmetics and confectionery.

He said: "In the bank note side of the business we work with a lot of smaller companies who are often working on security features. Our main role is making sure they can be operated at scale, which is something small companies aren't very good at, but in which we work well. In the more general packaging market it's hard to find firms with a realistic expectation for what they can offer, so we've not had many good collaborations in that space."

The report highlights the importance of rising numbers of innovation centres - the likes of Newcastle's Science Central as an innovative hub - accelerator programmes such as Ignite, which is now being replicated across the UK, and tech clusters, which are bringing the two diverse but mutually dependent sides together.

Philip Aldridge, chief executive of NEPIC, the cluster organisation working with the chemical-using industries in the North East, said: "In terms of what NEPIC have done, the power of clusters in a nutshell

is about trying to get people talking, to try to collaborate.

"That's key on a sectoral basis and regional basis. But I also think it's important cross-sector. There is some clever stuff going on in the automotive sector how can chemicals in the North East benefit from that?

"I think we are behind the curve. The likes of NEPIC and our automotive counterpart, NEAA, are doing a lot but Europe in clusters get this much more and have been established much longer."

Newcastle's Reece Group is a prime example of a group which is seeking to partner with outside organisations to bring forward innovative products. Ryan Lamb, head of finance at the pioneering engineering firm, explained how its newest division Reece Group Innovation is acting as an innovation partner for larger entities, like Newcastle University and Northumbrian Water, as well as smaller firms who have come to the region to tap into the firm's expertise.

As a group, it also needs to tap into different companies to get out new products - a strategy which led to it taking a majority stake in food packaging firm Continuous Retort.

Mr Lamb said: "That was a very small company with no limits on what they could do, but it has been a challenging process incorporating the two.

"It's getting the balance between having procedures WE DO HAVE A TRULY COLLABORATIVE NETWORK WHICH RECOGNISES THAT BY COMING TOGETHER THEY ARE DERISKING THE INNOVATION AND HELPING ON FINANCIAL TARGETS.

and controls but still having that level of autonomy to not completely sit on top of it, so they can still think and do their own thing. If we just make it part of the Reece Group that completely goes. It's quite a soft thing we do and that's why it's working."

The Womble Bond Dickinson study shows a significant drop of 28% in the number of collaborations between large firms and SMEs since the vote to leave the EU.

Peter Snaith, the law firm's head of manufacturing, said: "It's policy related in that people won't make the investment if there are going to be changes down the line.

Continues...









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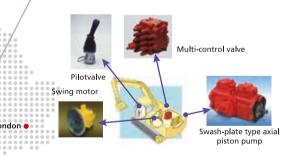
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...continued.

"You have to know the path vou are embarkina on will be a straight one otherwise you won't take the risk."

This is perhaps why many large firms are, instead, looking inward and trying to innovate from within.

Sandra Thompson, audit partner and office managing partner at EY's Newcastle base, said: "I would argue that there's a lot of innovation going on inside big companies. Allegedly we're the leading edge of technological advancement across the Big Four, but I think the only way we've been able to do that is in small teams.

"We've carved out divisions like EY Absolute, EY X, but essentially it's people who have been taken out of the business to work on innovative technology, artificial intelligence - we've got some amazing stuff.

"I think it has to happen in small teams. The problem is to scale it out, which is quite tricky, unless it aets the backing of everyone in the business. Would EY go out to SMEs? We have done but it's rare. It's difficult with all the rules and regulations to remain independent. It's such a shame because there is so much we can do."

Creating a collaborative culture within businesses is just as important, especially when some have large workforces who aren't aware of their fellow colleagues duties.

When Sandra was first appointed

EY's Newcastle office manager she went to great lengths to create an excitina working environment, installing table tennis tables, to get people meeting and talking.

"We also had an event in Gosforth - a fair, with a tin can alley, hoopla - and it was the first time that everyone had been together. When you become such a scale it sounds fantastic but keeping it all together and making sure everyone feels part of the same company is quite tricky."

Kevin Robertson said the legal sector has been on catchup and, learning from other sectors, Womble Bond Dickinson created an internal innovation team, adding: "It's open to everybody. It doesn't matter what your job is. It's taken a while for people to realise it's for everyone to join in.

"When you've been in the same business doing the same process for so long it becomes more difficult to see a new way to do it, so in response we got some fantastic ideas in a competition, including one from a paralegal which we are taking, backing and running with. That got us to look inward and say: 'We've aot ideas within our own business. how do we get to them?'

"It's a cultural thina. You should feel that if you have ideas you can make them heard." Andrew Buchanan, of investment fund Tourian, said: "Research and development often just breeds more research and development, and doesn't necessarily scale up. That's where the aap is." Phil Kite, director at EEF, former

CEO at Reece Group and the leader of Team Tyne Innovation. aareed.

Phil's Team Tyne Innovation project will see him and three other rowers journey 3,000 miles across the Atlantic in the world's toughest rowing race - a project which will involve as many North East SMEs as possible by showcasing products they provide to help them get across the ocean.

He said: "That's why we have Science Central. You could produce an environment for innovation and innovative companies, but they've got to grow. Newcastle will hopefully be the city of innovation, a great aspiration to have, but how do you invest in that to take it forward and make it the next big company? That's where a lot of thought has to go in."

Philip Aldridge said that while the UK is great at encouraging start-ups, helping them to grow is another matter - so rounded off the discussion with a very popular suggestion: the formation of a regional business cluster.

He said: "I think we need to play to our strenaths in the North East. We are a relatively small region and most of the big players know each other. We need to encourage a regional cluster of business managing and mentoring to help potential firms really grow."

Feature courtesy of Womble Bond Dickinson

Words: The Journal

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## BRANDING YOUR BUSINESS WHY YOUR BRAND STORYTELLING MUST START WITH HUMAN RESOURCES

trengthen your brand and gain competitive advantage by aligning Human Resources and Marketing.

One of the key issues for businesses in the North East is the ability to attract and retain talented people. By building a distinctive brand you increase your profile both to your customers and to future staff. However, it's increasingly difficult to achieve, particularly in today's challenging marketplace where brands have to compete in an overcrowded and noisy space.

A distinctive brand starts with a compelling idea that may be a disruptor in the marketplace, but certainly should capture peoples' attention. Good brands start from the inside out and are about creating the desired culture that will support the vision of the organisation. They have a core purpose that is the driving force, and this is well communicated throughout the business, so all members of staff understand how their role contributes to the bigger picture.

Customer service is a key focus for organisations with strong brands and their people understand they need to demonstrate passion and consistency in that delivery, whether its services or products.

Brands are about how you make your customers feel and that is dependent on the quality and consistency of your people.

One of the most critical partnerships in an organisation is to bring Human Resources and Marketing together to create a corporate culture that is on-brand, on-strategy and, ultimately, more effective at delivering bottom-line results.

Companies that align their marketing and human resource teams often see benefits in collaborative working and have higher levels of employee engagement and increased levels of productivity. So how do you build a supportive internal culture?

The starting point is to focus on your values and the internal communication within the business. Think about how you recruit, induct and train your people. Do they understand the vision for the organisation, where it is going and what role do they play in its development? Do the behaviours of your people and, in particular, your leadership team fit with the culture your brand wants to promote externally?



JEAN-PIERRE VAN ZYL Head of Employment Square One Law

...continued.

We've seen a great deal in the press recently, how behaviours from certain individuals can have a very negative impact on brands and culture. Also, the speed and connectivity of social media has a huge influence on developing and promoting brands, but equally the wrong messages about the organisation or its people can have devastating effects and these need to be dealt with promptly to minimise any damage.

To create a service delivery culture, it must start at the top and the leadership team must live the brand and demonstrate the type of behaviours they want to see in the organisation. If they do not buy in, why should their staff?

A brand's position, purpose and culture should all be employed by management to guide decision making and leading brands fully understand how important it is to have a cultural fit that is supportive to brand strategy.

A supportive internal culture that has a feeling of ownership strengthens employee engagement and has a far better chance of delivering an outstanding service. Companies who align their internal and external brand messages, and most importantly, stay relevant, have seen more collaborative working and an increase in productivity.

Since a brand's strength lies in its delivery, not just its communication, HR can be extremely effective in creating a brand-based culture through training programmes, new employee inductions and performance evaluations.

When we set up Square One Law seven years ago we asked prospective clients what sort of legal service they would like to see and overwhelmingly the replies were, speed of response, flexibility and value for money. So, we focussed on developing a culture that could deliver that type of service and ensured that our marketing message aligned with the realities of the internal culture, employees and infrastructure.

Your external brand needs to be an accurate and authentic representation of the firm within, to ensure that it can ultimately deliver on the promises that your brand is making, and your Human Resources and Marketing teams have the skill sets to train your people and make this happen.

ONE OF THE MOST
CRITICAL PARTNERSHIPS
IN AN ORGANISATION
IS TO BRING HUMAN
RESOURCES AND
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As the world's leading chemical companies, that for decades have made catalysts that remove polluting substances from vehicle exhausts, switch their focus to become key players in powering electric cars of the future, we look at the efforts in place to ensure the UK is at the forefront of this transformation and the supply chain opportunities it presents.

orldwide sales of pure electric vehicles grew by 45 per cent last year and the International Energy Agency estimates that there will be between 9m and 20m electric vehicles on the road by 2020 and between 40m and 70m by 2035 - by which point it is estimated to be a £5bn market opportunity in the UK and £50bn across Europe.

Big chemical players, such as Umicore in Belgium, chemical giant, BASF, and UK-listed Johnson Matthey are now preparing for the eventual decline of traditional internal combustion engines. All three hope to capture the growth in demand for components used in rechargeable lithium-ion cells and are planning to expand production of cathode materials,

critical in increasing the amount of power a battery can deliver.

Most recently, UK-based chemicals group, Johnson Matthey - which is one of the world's largest suppliers of catalytic converters - announced plans to build a battery materials demonstration plant in the UK with double the originally expected production capacity, as well as a £200m commercial plant in Europe with the aim of commercial production by 2021.

#### The post-Brexit opportunity

Electric vehicles have been identified as a key post-Brexit manufacturing opportunity for the UK, with one in five electrical vehicles driven in Europe produced here. Several manufacturers have sizable facilities including Nissan in Sunderland and Jaguar Land Rover in the Midlands.

In November 2017, Greg Clarke, Secretary of State for Business, Energy and Industrial Strategy, announced £80m of funding to establish a National Battery Manufacturing Development Facility.

**SUPPLY CHAIN** 

...continued.

As part of the Automotive Sector Deal included in the recent Industrial Strategy, the battery facility is part of efforts to place the UK at the forefront of the global energy storage market. It will be responsible for turning the most promising early and mid-stage research and development practices into scalable and commercially viable propositions.

Mr Clarke said: "Battery technology is one of the most game-changing forms of energy innovation and it is one of the cornerstones of our ambition, through the industrial strategy and the Faraday Challenge, to ensure that the UK leads the world, and reaps the economic benefits, in the global transition to a low carbon economy."

Further monies will be injected to tackle the biggest challenges including key technologies such as the development of battery materials and cell manufacturing; design and production of modules and packs including advances in thermal management and battery management systems and of course, recycling and the recyclability of battery packs.

The rise of battery manufacturing in the UK will lead to a significant number of opportunities in the supply chain. These opportunities will cover several key areas - some specific to battery manufacturing and other more generic in terms

of process design, control and instrumentation, engineering and other service and support functions. The battery specific opportunities are likely to focus around chemicals supply, injection moulding, waste disposal and software development.

Lithium-Ion Battery (LIB) is a generic term for batteries whose electric and chemical properties depend on lithium. LIB cells are comprised of four main components - cathodes, anodes, separators and electrolytes - inserted in various container types. Cathodes, anodes and separators take the form of sheets, and are wound or stacked to form alternating layers of cathode-separators-anode, with ions flowing between the cathode and anode sheets via an electrolyte solution.

LIB's are primarily utilised in consumer electronics applications due to their high energy density and lifecycle. Their high potential power output also makes them well-suited to automotive applications. The LIB value chain comprises of raw and processed materials; electrodes; cells and batterypack - which together generate quite a shopping list of common chemicals, materials and processes.

The Faraday Challenge is a £246m commitment fromGovernment to battery development for the automotive electrification market opportunity.

Over the next four years, it will provide a new 'applicationinspired' research programme coordinated at national scale and an innovation programme to support collaborative research and development with co-investment from industry. Furthermore, it features a scale-up programme to allow companies of all sizes to rapidly move new battery technologies to market.

The UK has world class expertise across a range of areas in battery science and has already built a significant number of research networks and pilot facilities upon which this challenge will build. Compatible infrastructure and a unified transport and energy system are also critical to electric vehicle uptake. The recently launched £20 million Vehicle-to-Grid (V2G) competition seeks to support this by funding projects which aid the interaction between electric vehicles and the grid, paving the way for widespread adoption of electric vehicles.

This is a comprehensive research, innovation and scale up programme, focussed on batteries from their raw materials and electrochemistry to end of life treatment, encompassing cell manufacture, modules, battery pack design and assemblies, and vehicle application.

By any scale this is a game changing investment in the UK and will make people around the globe take notice of what the UK is preparing for in terms of electric vehicle introduction.

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...continued.

The movement from the internal combustion engine to an electric vehicle is transformative. It's entirely different technology and at present an entirely different cost structure. This poses both risks but also huge opportunities for the UK economy.

The programme will develop safe, cost effective, durable, lighter weight, high performing and recyclable batteries which will power the next generation of electric vehicles. This will involve businesses with a wide range of materials and manufacturing capabilities from across different sectors, creating a new supply chain to support battery production in the UK at scale.

Alongside this there is legislation moving through Parliament, the Vehicle Technology and Aviation Bill, which will pave the way for autonomous and connected driverless cars. The UK is at the forefront of legislative and regulatory change in order to enable this technology to be deployed in the UK which will be based on electric and Ultra Low Emission vehicles.

As you will also read in this Directory, there are significant opportunities for the use of Hydrogen in transport. This complements electric vehicles with most appropriate solution being dependant on usage patterns, which can be considered similar to the current diesel/petrol options available to consumers.

The other seldom mentioned fact is that hydrogen powered vehicles are still reliant on batteries to efficiently utilise the electricity produced by the vehicles' fuel cell, therefore, the work to improve batteries helps drive forward both technologies.

Over the coming months NEPIC will continue to work closely with the Chemistry Growth Partnership, Innovate UK, Warwick Manufacturing Group and the Faraday Challenge to ensure our members are aware of the developments and are geared and ready to take advantage of this significant opportunity.



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## CENTENARY YEAR FOR NEPIC MEMBER BRENNTAG



SHAUN MYERS
Business Services Director,
Brenntag UK & Ireland

Brenntag has been a member of NEPIC for over ten years. How has Brenntag evolved over these years? We speak to Shaun Myers, Business Services Director for Brenntag UK & Ireland.

#### Why did you get involved with NEPIC all those years ago?

Back in 2008 when we joined I was the General Manager at our site at Birtley. It was obvious to me that a cluster organisation like NEPIC matched closely our own position within the infrastructure of North East manufacturing. We are integrated horizontally and vertically into the region as a customer of, and supplier and service provider to many

of the region's organisations. As such the North East particularly is a very important region for Brenntag.

#### What would you describe as the key strength of Brenntag in the North East?

The loyalty and the experience of staff has to be number 1, which leads to loyalty of our customers and fantastic working relationships (some for over decades). 2018 marks the Centenary year of chemical related activities on our Brenntag Newcastle (Birtley) site, dating back to 1918 with the establishment of Ouseburn Trading Company, Back in those





#### ConnectingChemistry

#### 1918 Centenary Year 2018



- 1918 Ouseburn Trading Co
- 1930 Newcastle Zinc Oxide Co
- 1947 Durham Chemicals
- 1983 Hays Chemicals
- 2001 Albion Chemicals
- 2006 Brenntag Group



days the focus was on chemical manufacturing which is a valuable heritage for Brenntag. However chemical distribution of specialty and industrial chemical ingredients is what has been our successful focus for several decades. Over the last ten years our business model has been changing rapidly, as we are now leading in the supply of specialty chemicals and bespoke added value services such as specialist blending, formulation, regulatory and legislative support, with the North East providing one of the mainstays of our capabilities in these areas. Our Newcastle blendina facilities, for instance, service significant life and industrial science market across the region, whilst supporting our wider UK network of Brenntag sites and blending facilities.

As we are now part of the world's largest chemical distribution business, our heritage as a manufacturing company is deployed at our

blending services activity on site, as well us at our manufacturing facilities. Our thorough knowledge of the manufacturing process means we understand the exacting demands of our customers.

However, we are not complacent: hence over a year ago we have engaged in the comprehensive Customer Experience program which is extremely multifaceted. It includes both ongoing Customer Experience surveys where we measure customers' propensity to recommend Brenntag to industry colleagues, as well as the bespoke expert led training that touches every single role across the Brenntag employee base. We want the Brenntag name to be synonymous with great customer experience. It has been 150 years of Brenntag history in the chemical industry, and 100 years in the North East- we want to ensure that customers enjoy dealing with

Continues...

THE LOYALTY &
THE EXPERIENCE
OF STAFF HAS TO BE
NUMBER 1, WHICH
LEADS TO LOYALTY
OF OUR CUSTOMERS
& FANTASTIC WORKING
RELATIONSHIPS.





**Houghton International** 

Electro mechanical innovation



...continued.

WASHINGTON.

Brenntag because of the experience they receive from our teams, as well as the scale, coverage and product offering that is inherent to Brenntag.

#### The subject of Customer Experience is clearly very close to your heart.

I truly believe Customer Experience is an attitude, a culture, an enthusiasm. It is about people and how they feel. It is the passion demonstrated by our Brenntag Newcastle team daily that I would highlight as one of our key strenaths and a source of great customer experience.

The Brenntag Newcastle site has also played the pivotal role in the development of Brenntag UK & Ireland Executive team. I personally had the pleasure of succeeding Richard Ward (Brenntag UK & Ireland COO) as the General Manager of the Newcastle site back in 2004,

who himself followed Nicola Boulter (Brenntag UK & Ireland Commercial Director) as the previous General Manager of the site. I am proud to say that we enjoy some of the greatest levels of customer intimacy with many of our business partners in the North East. Based on the ongoing direct feedback and the likelihood to recommend sought in our ongoing Customer survey, it is rewarding to both myself and the team to know that the Newcastle site continues to offer best in class customer service.

#### What would you say are the reasons for such high degree of customer intimacy?

This goes back to our teams: their experience, dedication, ability and desire to go an extra mile, all allow us to develop the deep understanding of customer requirements and to go above and beyond to ensure that we meet and exceed those on the ongoing basis. The engagement and motivation of our colleagues means we look at delivering the great service level and continuously evaluate and expand our product and service offering as well as business processes and infrastructure to support our ambitious plans for business growth.

#### What's next for Brenntag in the North East?

Our Centenary year marks the end of our tenure at the current Birtley site. We are nearing the completion of the major project that will mark the opening of our new state of the art, purpose built facility located within the Turbine Business Park near Washington. The new site will have 4000 sq ft of office and amenities, a 15,000 sq ft warehouse with

dedicated, high bay storage for both life and material science specialty ingredients, and bulk storage facilities for the range of inorganic products.

The new site is adjacent to the main arterial routes, the A1 and A19, and the new location will enable us to provide even greater focus on customer experience. This major investment, along with ongoing multi-million investment plan across the UK & Ireland, signifies our strategic intent to further enhance the efficiency of our infrastructure, geographical reach and added value capabilities in the core markets we serve. The North East is one of the key net exporting regions helping to fuel the UK economy, and Brenntag are proud to be part of the region's ongoing success. We are totally focused on supporting our customers in all aspects of chemical and ingredient distribution.

For further information on how Brenntag can assist your business please contact:

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The NEPIC Directory 2018 www.nepic.co.uk





EPIC is a proactive membership organisation working on behalf of the chemical-processing sector and its associated supply chain in the North East of England. Owned by our member companies and guided by a strong team of industrial leaders, we are one of the most influential clusters in the UK.

ENGLAND'S LARGEST INDUSTRIAL SECTOR?

For more than a decade, NEPIC have delivered high quality business growth support, working with member companies of all shapes and sizes. Our activities to date have generated in excess £3.5 billion of GVA for the region.

Our network includes member and partner companies that work within or would like to become involved in the region's largest industrial sector. If your organisation is looking to grow or be part of the sector or supply chain, we have the network and expertise available to help you win new business and succeed.

#### Tangible benefits

Membership of NEPIC offers immediate connectivity to a

wide and diverse process industry incorporating petrochemicals, pharmaceuticals, fine & speciality, biotechnology, polymers, bioresources & renewables and a significant supply chain.

As well as providing our members with tangible membership benefits, we are also continually working on key projects and industry issues to ensure the long-term sustainability of the chemical-processing sector in North East England and creating a business environment in which you can thrive.

#### Join us today and benefit

- Face-to-face business support and signposting via NEPIC's highly experienced team, along with access to a wealth of knowledge via industry mentors and the wider network.
- Support and guidance relating to access to finance, innovation channels, exporting, tactical PR and much, much more.

Continues...

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- Company promotion and signposting via free profile listings both on-line and within NEPIC's award winning Directory publication.
- Publicise your news and thoughts with free editorial opportunities in print through Focal Point Magazine, online at Members' Hub and via various social media platforms.

- Complimentary copies of NEPIC publications including the NEPIC Directory and Focal Point Magazine, along with subscription to membership and industry e-updates.
- And whilst you are busy networking and building your business through these services, we are also hard at work tackling the key issues facing industry such as Brexit, talent attraction and retention, integration, sustainability and of course, attracting inward investment!

With annual subscription fees starting from as little as £310 and pro-rata fees available, why not join us today and become part of North East England's most powerful industry Cluster. Together, we can Cluster. Connect. Grow.

To start your journey with us, contact our Membership & **Engagement Team or visit** 

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Liz Rooney liz.roonev@nepic.co.uk 07802 255 118

FACE-TO-FACE **BUSINESS SUPPORT** & SIGNPOSTING VIA NEPIC'S EXPERIENCED TEAM & INDUSTRY MENTORS.







## COLLABO RATION IS KEY



## TO CAREER CHOICE CHALLENGE

### AN INTERVIEW WITH LAUREN BYWATER, GENERAL MANAGER OF THE HIGH TIDE FOUNDATION

THE WAY WE ENGAGE & INSPIRE YOUNG PEOPLE IS TO GET THEM OUT THERE AMONGST INDUSTRY & MEETING THE PEOPLE THAT MAKE THINGS HAPPEN.

It's not about writing a cheque, it's about attitude, culture, collaboration and involvement, a bold statement from Lauren Bywater, General Manager of the High Tide Foundation, talking about the importance of business engagement in inspiring a young person's career choices.

or the last five years, Lauren has become a driving force in transforming the way in which young people across the Tees Valley view a career in industry through the High Tide Foundation, based in Middlesbrough.

With the recent launch of the Tees Valley Mayor's skills strategy, which identifies up to 133,000 jobs to be filled by 2024 in the Tees Valley, Lauren talks to NEPIC about how the High Tide Foundation has built an enviable reputation bringing businesses, education providers and young people together for the benefit of everyone.

Originally from Redcar, Lauren left the region at the age of 18 to

further her studies at Hull University before returning to the area and is now helping other young Teessiders on their career path.

Lauren's focus is on connecting education directly with businesses to deliver a programme of career education, enrichment activities and first-hand workplace experience opportunities through High Tide including sector specific weeks, site visits, cadetships and a fresh approach to work experience.

The Foundation, which was established in 2012 works with 83% of secondary schools across the Tees Valley and has ambitious plans to increase this to all secondary schools, providing access to High Tide programmes for every student.



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TIME & RESOURCES TO DELIVER MEMORABLE & IMPACTFUL PROGRAMMES TO INSPIRE YOUNG PEOPLE IS TOP OF THE AGENDA.

"Over the last five years we have seen our membership grow to over 150 with businesses that span all sectors and all sizes. We appreciate all levels of support, no matter how areat or small - whether it's speaking at a career assembly or leading on one of our new work experience programmes.

"Skills development and retention is a key challenge facing many sectors, locally, regionally and nationally. The programmes we deliver at High Tide not only provide real life work experience they also offer genuinely unique and life-changing opportunities for young people. Every business across our region have one thing in common, we all need good people. Fresh talent with bundles of enthusiasm, equipped with the right level of skills disrupt the norm within business, they spark innovation and push the boundaries which drives progress and positive change.

"The process industry is a lynch pin of our region's economic success and it continues to see considerable growth. As processes change and new technologies are implemented across the industry, we need to ensure we are equipping our young people with the necessary skills to have a chance at being part of this world-class industry on our door

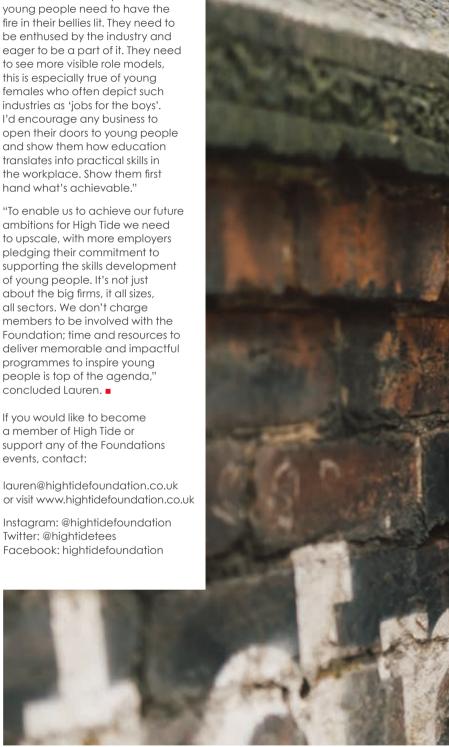
step. To create a desire to want to learn these necessary skills, these young people need to have the fire in their bellies lit. They need to be enthused by the industry and eager to be a part of it. They need to see more visible role models. this is especially true of young females who often depict such industries as 'jobs for the boys'. I'd encourage any business to open their doors to young people and show them how education translates into practical skills in the workplace. Show them first hand what's achievable."

"To enable us to achieve our future ambitions for High Tide we need to upscale, with more employers pledging their commitment to supporting the skills development of young people. It's not just about the big firms, it all sizes, all sectors. We don't charge members to be involved with the Foundation; time and resources to deliver memorable and impactful programmes to inspire young people is top of the agenda,"

If you would like to become a member of High Tide or support any of the Foundations events, contact:

lauren@hightidefoundation.co.uk or visit www.hightidefoundation.co.uk

Instagram: @hightidefoundation Twitter: @hightidetees Facebook: hightidefoundation





# ENERGISING THE INDUSTRIAL RENAISSANCE OF THE SOUTH TEES

Effective business partnership combined with the "can do" attitude of the people of the Tees Valley will be the twin drivers of the area's industrial regeneration.

hat's the view of Sembcorp, which stands ready and able to energise the industrial renaissance of the South Tees area as well as to contribute towards the power needs of the country.

The integrated energy, utilities and services company owns much of the prime industrial development land at the 2,000 acre Wilton International site and is behind an exciting new power station proposal that will supply site needs and more in the decades ahead.

Sembcorp's track record in delivering ultra-reliable supplies of competitively priced, low carbon energy to customers over the past 15 years has played a pivotal role in attracting more that £1.5 billion of new investment to the site in that time.

Today, Wilton is home to a variety of companies in a range of important manufacturing sectors including

biofuels, plastics recycling, power generation and minerals processing.

Established firms such as SABIC UK Petrochemicals, chemical companies Lotte and Huntsman Polyurethanes and sustainable biofuels manufacturer Ensus have all made massive investments in their assets in recent years.

Now, they look set to be joined by other firms investing hundreds of millions in new assets on the site - developments which will lead to a brighter future, not just for Wilton but the economy of the area as a whole.

Sembcorp's own investment plans are aimed at boosting the generation capacity of the Wilton site to meet the anticipated higher power demand, supporting new investments both at Wilton and potentially on South Tees Development Corporation (STDC) land south of the River Tees.



NOMI AHMAD Head of UK Business, Sembcorp Industries Group





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...continued.

The company is more than half way through a planning process that could see a "nationally significant" new gas-fired power facility of up to 1,700MW built on the site of the former Teesside Power Station.

Importantly, the Tees Combined Cycle Power Plant ("Tees CCPP") would be carbon capture ready and - along with an added 1,000 megawatts of capacity acquired as part of a deal to buy Midlands-based UK Power Reserve (UKPR) recently - would be capable of exporting power into the National Grid to help meet UK needs at times of peak demand.

Nomi Ahmad, Head of Sembcorp's newly-formed UK business, said: "It's a really busy and extremely exciting time for us.

"Our customers all have one thing in common - the need for low carbon, reliability and competitively priced power - and with the recent acquisition of UKPR we have more than tripled our existing operating capacity and gained substantially more in construction and under development."

The £216 million deal marked a major milestone in the transformation of Sembcorp into an integrated energy business in the UK - giving the company a national presence, a firm foothold in the distributed energy market and a total overall capacity of around 1,200 MW of power - the equivalent of the power used in more than 1 million homes.

Mr Ahmad added: "Our parent company, Sembcorp Industries, said at the start of 2018 that we were looking to deepen our presence in the UK energy market and this is proof that it is happening. The acquisition gives us greater opportunities for

OUR CUSTOMERS
HAVE ONE THING IN
COMMON - THE NEED
FOR LOW CARBON,
RELIABILITY AND
COMPETITIVELY PRICED
POWER.

further expansion and sets us firmly on track to grow in the UK."

UKPR's portfolio of highly flexible assets at 32 locations around England and Wales includes small scale fast-ramping gas fired power units and rapid response batteries connected at the distribution level close to customer load.

Flexible distributed generation is the fastest growing sector of the UK energy market given its role in bridging supply gaps between intermittent renewables and slow-to-fire thermal power generators. The versatile units add resilience to the National Grid by providing high value, rapid response services that help to balance the national power supply system, particularly at times of high demand.

In making the acquisition announcement, Neil McGregor, Group President and CEO of Sembcorp, said: "It transforms our UK business from being a centralised utilities provider on Teesside into an integrated energy business with operations across the country.







#### ...continued.

It also builds up Sembcorp's merchant energy business, which we have identified as an area of focus for the Group."

Yet, despite its new national profile, Sembcorp is determined to keep its UK headquarters firmly on Teesside and believes that a flourishing partnership with the new Mayoral Development Corporation and other bodies will result in further 'organic' growth.

Sembcorp and the STDC have recently signed a Memorandum of Understanding - an agreement to jointly promote further investment in the area - ensuring that potential investors are directed to the most appropriate sites for their requirements.

The move also ensures that business and marketing skills are combined, avoiding duplication of effort and unnecessary competition between the Wilton International site and its 4,500 acre neighbour.

THE STDC AREA IS
THE SINGLE GREATEST
DEVELOPMENT
OPPORTUNITY IN
THE UK RIGHT NOW.

Tees Valley Mayor Ben Houchen, Chair of STDC, said of the agreement:

"It made perfect sense to join forces with Sembcorp to support the development of both sites rather than work in isolation. The STDC area is the single greatest development opportunity in the UK right now. Our bold vision will see the area completely transformed into a hotbed of new industry bringing sustainable economic growth and prosperity to the region."

Mr Ahmad said:

"The talks we've been having with the Mayor, STDC, PD Ports, our local MPs and local authorities over the past year have been extremely productive and it's been clear that there are a number of ways in which we can help each other and work in genuine partnership to achieve the same thing - to bring new jobs and investment to the area."

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## HYDROGEN: THE SECOND DASH FOR GAS?

The hydrogen economy is growing in publicity with references occurring in technical journals and news reports, inboxes are overflowing not only with GDPR related emails but also hydrogen related courses, press releases and events. Perhaps now is the time to look at what the benefits of a hydrogen economy could mean to the North East and how we as a region can seize the opportunity.

The hydrogen market is developed and established due to its use in ammonia and methanol production, as well as in the refining of crude oil. However, more recently, its use is transitioning as it becomes an energy vector too in areas such as transport, fossil fuel replacement and energy storage.

Furthermore, there is growing development of hydrogen's potential in the domestic setting as well as its current industrial use. When most think of hydrogen one of their first thoughts is the 1937 Hindenburg disaster and yet, despite this, safety surrounding hydrogen has developed such that, less than 100 years later, plans are being drawn up to pipe it directly into homes as an alternative domestic fuel. So what improvements have been made in safety and how significant are the advantages that vastly outweigh this preconception?

#### **Environment and safety**

When hydrogen burns it produces water as opposed to conventional fossil fuels which produce  $CO_2$  - the main cause of global warming. Hydrogen is therefore a good choice for replacing fossil fuels such as natural gas, diesel or petrol in applications where it is particularly hard to reduce  $CO_2$  emissions by other means. Additionally, combustion does not generate particulates, which can be problem in urban locations or enclosed areas and is estimated to lead to approximately 29,000 deaths per year in the UK.

#### Energy system stability and optimisation

Hydrogen can be produced by the electrolysis of water and thus can assist with balancing supply and demand on the National Grid, this is especially important with the higher utilisation of renewable generation such as wind and solar resulting in supplies onto the grid being hard to predict and control compared to conventional generation.

By utilising surplus electricity to produce hydrogen the imbalance can be controlled, and a useful product obtained that can either then be used as hydrogen in transport or industrial processes for example. Alternatively, hydrogen can be stored and converted back into electricity when there is a shortfall by using fuel cells.



COMBINATIONS

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Compressed hydrogen has an energy density 4x that of Lithium Ion Batteries on a volume basis and 3x that of petrol on a mass basis, making the use of hydrogen as an energy storage medium very attractive for both fixed energy storage systems and a replacement for petrol and diesel-powered vehicles.

#### Hydrogen use

The use of hydrogen poses several unique technical, social, financial and political challenges and work is ongoing to overcome and current progress is considered to be very positive.

The nature of the hydrogen molecule, being extremely small and its very fast flame speed, present a number of challenges which need to be considered in the design of hydrogen related equipment. Although these challenges are present with natural gas and petrol for example, mitigation measures have been built into existing engineering and operational controls.

The extremely small nature of the hydrogen molecule mean that leakage rates are much greater than other gases and hydrogen can actually dissolve into metals affecting their properties and leading to embrittlement if materials of construction are not carefully selected. Integrity of joints in hydrogen systems is critically important to ensure that leakage is controlled.

It must be remembered that the Chemical Industry is widely experienced at designing, operating and maintaining large scale complex systems containing dangerous and corrosive gases and has a good safety record - experience that is transferable to that required for the hydrogen economy in general.

The issues associated with utilising hydrogen in domestic equipment, such as cookers and hot water boilers, are currently being explored through several different studies examining both safety and practicality of the conversion of the existing natural gas distribution network to hydrogen.

The use of hydrogen in domestic equipment is likely to require changes to the design of burners that are optimised for natural gas and these changes may require the purchase of new equipment, installation of conversion kits. Indeed, in future, dual fuel equipment may be released on the market capable of firing either hydrogen or natural gas.

The situation with the use of hydrogen for transport is much further advanced with both hydrogen fuelled vehicles, trains

and refuelling stations already available and operating in some areas. In this case the situation can be compared with the roll out of electric vehicles albeit due to the higher ranges and re-fuelling speeds currently seen on hydrogen vehicles the infrastructure requirements are likely to be less.

#### Hydrogen and the NEPIC region

Teesside already has 50 per cent of the UK's total hydrogen production with BOC's steam methane reformer, as well as distribution pipelines and salt caverns for transporting and storing large volumes of hydrogen. SABIC's "Cracker" also produces hydrogen as by-product of the cracking of ethane and used internally in the process and as a fuel gas.

The region is also well provided with existing electrical generation with more schemes currently in planning, including several renewable and biomass plants, and the grid connection point for part of the Dogger Bank Wind Farm project allowing additional "green hydrogen" to be produced utilising electrolysis. Furthermore, the Carbon Capture network proposed by Teesside Collective has already examined and costed the installation and operation of Carbon Capture from BOC's steam methane reformer.

The ambitious H21 Leeds
City Gate project seeks to
demonstrate the conversion of
reformers located in the Tees
Valley - utilising salt caverns
for storage and the proposed
Teesside Collective CCS network

to capture the carbon produced during manufacture.

In terms of transport and logistics, the region also makes a fantastic location for the development and roll-out of hydrogen powered vehicles given the existing hydrogen assets, supply chain, skills and knowledgebase that already exists.

Additionally, the manufacturing sector within the region generates in a high number of vehicle movements covering relatively high mileage per day but within a physically compact area. The region is already familiar with High Hazard COMAH sites and makes the provision of hydrogen refuelling facilities less problematic than if there was the need to install a much more geographically diverse network.

Work is already going on to examine and increase the efficiency of hydrogen production by fermentation of wastes and biomass thus adding further opportunities to produce green hydrogen. Again, the region has vast experience in biotechnology that can be harnessed to take advantage of this opportunity.

#### Conclusion

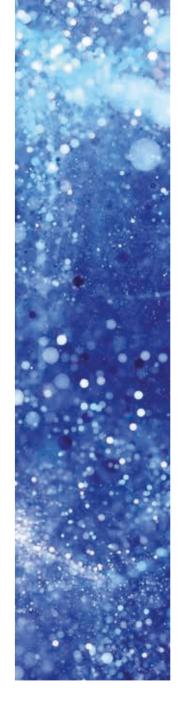
The growth of the Hydrogen Economy is increasing and will result in significant disruption to many existing markets ranging from automotive, domestic equipment, oil and gas and energy through to the process sector. This disruption also creates a number of opportunities and it is up to us as a region and sector to seize these and exploit our talents and resources to ensure we are

at the forefront of the process and enjoy the commercial and environmental benefits rather than be left behind as our competitor's race ahead.

The NEPIC region is ideally placed to take advantage of the benefits of the hydrogen economy due to the unique combination of existing assets, established supply chain, unrivalled R&D facilities and the skills and experience of the existing workforce.

One thing is for certain, if the region does not firmly grasp the opportunity other regions will and we will miss out on the economic and energy security benefits associated with the Hydrogen Economy. Already other regions such as the North West are progressing plans to incorporate H2 and Carbon Capture and Storage in parallel with Germany, Japan and the US already active in developing substantial hydrogen powered transport systems.

Given the potential benefits to the region NEPIC is keen to see the North East process sector at the forefront of the hydrogen economy and will be looking to work with members to seek opportunities and help progress this vital technology. As part of this we will be engaging with key players to understand how we can help the region deliver the opportunities a hydrogen-based economy promises.



## POTENT BIOPHARMACEUTICAL O CCUPATIONAL HEALTH JUSTIN MASON-HOME Director, **HPAPI Project Services** 0E-09

#### BIOPHARMACEUTICAL MATERIALS CAN HAVE A PROFOUND EFFECT ON PATIENT PHYSIOLOGY.

AND SAFETY

Occupational health and safety for potent active pharmaceutical ingredients (PAPIs) and highly potent APIs (HPAPIs) should be approached with the same systematic and scientific diligence used, for example, in controlling the quality of drugs given to patients.

t is noteworthy that society is willing to take a significant risk, by giving patients doses of biopharmaceutical materials that can have a profound effect on their physiology. Doctors are empowered to prescribe potent active pharmaceutical ingredients (APIs) in anticipation that the beneficial medical effect will outweigh any negative health downside. In the UK we are even bolder: we direct The National Institute for Health and Care Excellence (NICE) to act on our collective behalf and decide, on an evidence-basis, what monetary costs the public are willing to pay to provide medical therapies.

Very small doses of drugs can have very large effects. Thirty millionths of one gramme or 0.00003g is sufficient to radically precipitate a physiological change and render a woman infertile in oral contraception. New generations of ultrapotent materials may be given in even lower doses, especially if targeted to the disease site, in an attempt to reduce side effects.

With high potency and toxicity it is then a simple matter of logic, that the health of workers handling PAPIs and HPAPIs is also at significant risk if they are exposed at work. Healthy workers, people who are not ill and do not need medication, maybe in their 20s, of reproductive capacity and with many years of healthy life ahead of them, have a lot to lose. There is nothing on the benefits side of the equation for these people against which the risk may be weighed. Any health effect arising out of exposure to a drug at work would be adverse.



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BILFINGER TEBODIN www.tebodin.bilfinger.com +44 1925 64 93 09 sales.uk@tebodin.com Biopharmaceutical companies put in a lot of effort to validate that a drug is safe and efficacious and then control its quality prior to it being prescribed to a patient. The tools they use are primarily those of science; scientific data and evidence that "proves" that a drug is what it says it is and does what it should. Great investment is made, as the consequences of getting it wrong can have profound impact on profitability and company reputation. You'd think then that at least the same standard of science would be used to protect healthy employees. Sometimes it is. Biopharma occupational health and safety may not be as eye-catching and "cool" as the latest targeted immunotherapy, but it is good business and it is the criminal law.

The good news is that potent drug safety management follows the same systematic and scientific rules and disciplines that should be readily understood by science-based companies.

In contrast to other chemical substances, biopharmaceutical substances have toxicological information determined about them at the conceptual and research stage, preclinically in animal studies, at the clinical stage in humans and post market authorisation. The dataset available to assess hazard then is unrivalled. All occupational health and safety management starts with a need to know the intrinsic property of the material that is the hazard. Getting the hazard wrong can result in either over investment or inadequate worker protection, both of which are bad for business.

With the hazard established, the next stage is to understand risk.

Risk assessment underpins all health and safety management around the world. If a high hazard material such as a PAPI or HPAPI is handled in such a manner that the potential for worker exposure is very low, then the risk may be low. Conversely, if exposure levels are significant, then the risk to health may be unacceptably high. What sort of levels are we talking about? The measure by which we can assess the hazard of substances is the occupational exposure limit or "OEL".

does follow strict scientific principles of chemistry and chemical engineering.

Material behaviour is dictated by material physico-chemical properties and exposure potential by physico-chemical engineering principles of mass transport, but it does remain rather non-intuitive.

What there is no place for, is "emotional" guesswork. With toxicological hazard and exposure risks reasonably well understood, the next question is "what can be done about it"?

### OELs of some more familiar hazardous substances are:

Substance	OEL 8-hour time weighted average/ ng m-3
Cyanide	5,000,000
Benzene (human carcinogen)	3,250,000
Phosgene	80,000
Paclitaxel (anti-cancer	1,000
chemotherapy)	
Ethinyl estradiol (contraception)	40
Antibody drug conjugate (ADC) toxin (anti-cancer)	<10

Risk assessment involving such potent and toxic materials as PAPIs and HPAPIs is a challenge. The quantities are so low as to be very difficult to measure or even imagine. Risks and risk perception are generally beyond human appreciation. Unlike for cyanide, benzene and phosgene, no continuous speciated method for sampling and analysing any drug substance, at health relevant levels in air, has ever been developed and may well never be. Many falter by making rash assumptions about risk, using over-optimistic, non-scientific guesstimations rather than applying systematic science. Potent drug safety

Robotic biopharma working environments have been promulgated for over 15 years.... but never really seen. Even with current leaps and bounds in AI, the robotic research and development chemist or biochemist is some way off!

A clue about what to do can be found in UK health and safety Control of Substances Hazardous to Health Regulations (COSHH).

Continues...

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...continued.

"Control" can be delivered by a variety of means which, when used in concert, can establish and maintain a safe working environment. A combination of facility designs and layouts, closed processing operations, engineering controls such as ventilation and barrier containment around unit operations, definition and delivery of excellent working practices, personal protective equipment (PPE) and medical surveillance of workers all have a role to play.

With high hazard, high risk potential and a lack of traditional "tools" for monitoring and verifying that the workplace is safe, the PAPI and HPAPI workplace can be a highly uncertain environment, making investment complex. Contrast handling radioactive materials. High hazard is certainly present,

but the availability of reliable and robust monitoring, a government mandated safe limit and indeed individual worker monitoring makes it a certain and confident working environment. Furthermore, monitoring systems can be set to alert workers and mitigation can be taken early, all with a high degree of certainty. In the PAPI and HPAPI space there is no such level of certainty. Workplace monitoring in the form of equipment control (containment) performance testing and worker exposure testing is often extremely limited and in many case, absent altogether. Occupational hvaiene testina can and should provide some data which can be used in assessing workplace safety, but it must be recognised that the sort of certainty available elsewhere is just not possible.

PAPIs and HPAPIs are here to stay. Both product safety, for example in the form of cross-

contamination management, and worker potent drug occupational health and safety, can both be significant company liabilities. Effective management of them should be integrated into any biopharma project on a systematic and scientific basis, thereby protecting businesses and their shareholders.

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# CYBER SECURITY

# CHEMICAL-PROCESSING INDUSTRY RESPONDS TO INCREASING CYBER SECURITY THREAT

n the BBC's recent drama series, McMafia, a hacker accessed files and take control of Mumbai Port's IT network through a vending machine with poor security credentials. At first glance, this may appear implausible, but the threat to critical infrastructure is very real. As more devices are connected the ability to compromise a corporate network through an unpatched IoT connected device poses a real threat.

It is predicted that there will be 20.4 billion connected devices in existence by the end of 2020. It's evident that connected devices will continue to increase, posing many benefits, but also presenting growing security risk. As networks become more dynamic and continue to grow, it gets harder to identify and manage all the devices connected to them.

Unfortunately, critical infrastructure such as the Mumbai port shown in McMafia is particularly at risk. Some concerning examples of similar compromises include multiple water supply plants hacked between 2011 and 2016, and the US power grid that was infiltrated 17 times in just 2 years. But perhaps the most worrying of all

occurred in 2016 when a nuclear plant was hacked.

The 4th Industrial Revolution represents an extraordinary growth opportunity for manufacturing in general, however, by its very nature brings with it increased risk. A recent report highlighted that almost 50 per cent of manufacturers have fallen victim to cyber security, with a quarter suffering some financial loss or disruption.

Manufacturing is now the third most taraeted sector for attack behind Government systems and finance. However, unlike the connected device examples above, much of this vulnerability arises from industrial systems installed on plants that have built up and been modified over several years and, in some cases, decades. Whilst there is no change to the data collected, collated and used, the data management systems differ, resulting in an integration challenge to produce real time, meaninaful information whilst protecting the asset.

Industrial & Automation Control Systems cyber security trends

Looking beyond the headlinegrabbing cyber security incidents of recent years, threat intelligence gathered from the National Cyber Security Centre and global chemical companies, along with the insights and examples by the Health & Safety Executive (HSE), has exposed key Industrial & Automation Control Systems (IACS) cyber-security threats including Watering Hole; Triton, WannaCry, State-sponsored attacks and of cause, human error.

A recent watering hole example occurred on a COMAH site following 'spear-phishing' email sent from a supplier's system and contained Malware that gave the attacker command and control of a corporate desktop PC. The attacker then spread laterally across the network, securing access and acquiring information and knowledge needed to penetrate deeper into the control system. In this instance, the attacker intercepted and modified MODBUS over TCP/ IP communications between the tank farm PLC and DCS and overrode the safety instrumented system (SIS) that resulted in material being covertly pumped to overfill the jetty tank.

In 2017 a malicious cyberattack was carried-out on a petrochemical plant in Saudi

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Arabia that resulted in the attackers gaining control over a safety system that was critical in defending against catastrophic events. Malicious software, dubbed Triton, allowed the hackers to manipulate the devices' memory and run unauthorised programs on the system by leveraging the previously unknown bug.

Another example in 2017, saw WannaCry hit the headlines when attackers held the NHS to ransom for its patient data, causing outrage and chaos in equal measure. The WannaCry cyber-attack had potentially serious implications for the NHS and its ability to provide care to patients. It was a relatively unsophisticated attack and could have been prevented had basic IT security best practice been followed.

In recent years allegations of state-sponsored cyberattacks have occurred within the Middle East region with probably the Saudi Aramco attack being the most wellknown. The Saudi Aramco cyber-attack was carried-out in 2012 using a virus known as Shamoon. The virus disrupted computers by overwriting the master boot record, making it impossible for them to start up.

While ransomware cyber-attacks continued to make the headlines, accidental breaches caused by employee error or networkbreaches prompted by third party suppliers continue to be a major threat to the effectiveness of IACS cyber security within the chemical-processing industries.

One chemical-processing company - with sites across the

globe - came up against a major failure that would have impacted 80 servers and 200 database systems following an accidental incident that occurred as two of its plants were in the middle of a turnaround. An incident was raised with a vendor regarding unsupported hardware and while the vendor supplied replacement hardware, they also provided incorrect procedures for its installation. This in-turn caused a major hardware failure and data corruption and although a disaster recovery was implemented, this was further hindered with issues with backups. The complete loss of plant functionality was avoided in the main through effective communication and restoration for key systems taking place in order of importance.

### Health and safety executive response

Two years ago, the HSE recognised that the number of malicious and accidental cyber security incidents was increasing rapidly, both in the UK and globally. The HSE's response was to draft and release new Operational Guidelines for IACS which would be followed up with on-site cyber security audits that came into force in 2018 in plants across the country.

The key objective of the HSE's IACS Operational Guidelines was to offer a baseline from which organisations could implement cyber security processes. standards and training to successfully manage the health and safety risks resulting from a cyber security incident.

However, while there is no doubt there is a real and present need for the new guidelines, and that some in the chemical processing

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industry have responded positively to the HSE's actions, there is a number of significant challenges that lay ahead for the majority. The HSE plans to update its operational guidelines later this year following recent trials across a range of sites.

# A collaborative approach

To tackle this challenge, NEPIC sat down with Wilton-based Tekaem earlier this year to discuss how best to educate those working within the chemical-processing industry and help them to address the issues associated with IACS cyber security. The answer, we both gareed was they needed to hear from the source.

In March, the HSE's leading cyber security inspectors visited Wilton to outline the cyber security threats and discuss the key points within the guidelines. The HSE, along with SABIC, Tekgem and Frazer Nash addressed an audience that ranged from Instrument & Control Engineers to IT/OT Support Technicians, Automation & DCS Managers to Engineering Directors and HSE managers, all of whom are currently working on chemical-processing plants.

The event was the start of an IACS cyber security journey for all parties and participating member companies made it clear that they saw real benefits and agreed that an open and collaborative approach was needed to effectively manage the ever-evolving threat of cyber-attack, whether malicious or accidental. In fact, the high levels of knowledge shown by those at the event is a great reflection on the

true professionalism that exists within the industry.

Aware of the high-profile ransomware cyber-attacks, guests also recognised the risks posed by accidental breaches caused by employee error or network-breaches prompted by third party suppliers and represent a major threat to the effectiveness of IACS cyber security within the chemicalprocessing industries.

However, a cultural change is required within all organisations going forward to ensure that, despite not witnessing the effects of a cyber-attack first hand, we fully understand the size, scale and scope of the potential risks and are prepared and accountable should an incident occur. The first question that needs to be answered is who is responsible? And if you're that person it is better to respond to your cyber security threats now, rather than think the unthinkable won't happen.

Help it at hand and the HSE have provided some simple steps to improve security of IACS systems and the guidelines provide more detailed support. Also, expertise is available from organisations like Tekgem with their 'Defence in Depth' strategy.

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Your comprehensive guide to the chemical-processing sector in North East England

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# **Ashville Management**



We are committed to helping clients develop maintenance capabilities which form a key part of the business process. By developing the appropriate maintenance strategies supported by the right systems & tools including asset life plans and planning processes, maintenance can be an important part of business improvement. Performance benchmarking can be carried out as part of specific maintenance and operational improvement initiatives. Ashville Management also advises on EH&S and Comah related compliance requirements in areas such as electrical safety.

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# **Attric**

CATEGORY

Engineering

Engineering



asset/maintenance data management and engineering services.

Augean PLC is the sector leader in

led waste management solutions for

modernising hazardous waste management

practice, providing sustainable, compliance-

Britain's more difficult to handle wastes. The

Augean Industry and Infrastructure business has expertise in the treatment, recovery

and disposal of chemical and oil-based wastes. We are focused on expanding our

customer base to offer services which fully

utilise assets providing thermal, biological

our Port Clarence Waste Recovery Park in Middlesbrough we have permissions and

permits to operate an integrated range of

twelve waste treatment activities.

and mechanical treatment solutions. At

Attric is the leading consulting and services

company specialising in the development,

management and delivery of technical

information, procedural documentation,

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# **Augean PLC**



**CATEGORY** Waste Management & Recycling MAIN CONTACT

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# **AV Dawson UK**



CATEGORY Logistics & Distribution

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Commercial Headquarters, Dawsons Wharf & North Sea Supply Base, Riverside Park Road, Middlesbrough, Tees Valley, TS2 1UT

# **AVID Technology**



AVID is a leader in the design and manufacture of electrified powertrain components and systems for heavy-duty and high-performance electric (EV) and hybrid vehicles (HEV). Our core competencies are the design, validation and manufacture of high performance electric motors, power electronics and thermofluids integration. AVID manufactures a range of electrified powertrain components including electric pumps and fans, battery systems, traction motors and power electronics used in electric and hybrid vehicles and actuation and propulsion systems for robotics.

With over 75 years serving Teesside freight

Middlesbrough's Riverside Park operates 100

Quayside, Railfreight Terminals, a Container

Terminal, and over 50,000 square metres of

Warehousing and Project Fabrication halls.

All operations are supported by the diverse haulage fleet of over 200 trailers. The North

below LAT, 50m high fabrication halls and

cranes lifting up to 215 tonnes.

Sea Supply base now has 750m of operational

River Tees berthing, with water depths of 8.5m

acre freight terminal incorporating; River Tees

requirements in feed stock and finished

product supply chains, AV Dawson in

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# **Axiom Engineering Associates**



CATEGORY Engineering

**CATEGORY** 

Engineering

We are a company that provides the chemical, petrochemical, engineering and associated industries with materials & mechanical engineering and inspection services. We are a UKAS accredited inspection company and SAFed members and capable of carrying out examination of pressure equipment as part of the PSSR. We offer laboratory services and consultancy to provide plant operators with all their mechanical and materials engineering requirements. As a team of Professional Engineers and support staff we have extensive knowledge and experience in these fields.

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# Bakercorp UK



that caters a variety of processes from mixing and heating to filtration. Baker delivers the equipment you need when you need it the most. Baker provides integrated solutions involving pumping in ATEX zones and filtering contaminated streams either in process or waste. For over 70 years Baker has provided application expertise and equipment rental solutions to a growing number of industries Our national and European network of locations and product application experts are dedicated to providing you with the best equipment and personalised service available.

With the industry's largest fleet of rental tanks

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# **Bespoke Electrical**

CATEGORY

**CATEGORY** 

**Engineering Services** 

**Engineering Equipment** 



Bespoke Electrical are a specialist electrical engineering company, offering a full turn-key package from design, installation, testing and certification. Being renowned for providing attention to detail whilst carrying out solutions to our client's projects, with this in mind our clients can be rest assured that all work undertaken safely and to a very high standard. Using experience gained over the past 20 years of working within the electrical industry our team of engineers have developed modern methods to reduce on site labour and time

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# **Big Purple Productions**



CATEGORY Marketing, PR, Events, Design & Printing Big Purple Productions Ltd is an Audio Visual specialist and Production Management company. Through a team of creative production managers and expert technical engineers, we offer all the services required to deliver outstanding events. At Big Purple Productions we work with you to understand your event requirements and expectation. We then develop an event concept building on your brand and deliver all the necessary technical elements, production aspects and stage management to bring your event to life. Working with you to produce inspirational

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# **Bignall Group**



For over 40 years Bignall Group have helped inspirational designers, engineers and entrepreneurs create their dreams. Exporting to over 20 countries across sectors as broad as agriculture to oil & gas, automotive to architecture; we use this experience to question traditional thinking, challenging what a particular idea might look like, how it might be used, and the ways it can positively impact society. We then bring it to life.

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# CATEGORY

Engineering

# Bilfinger Industrial Services UK



**CATEGORY** Engineering Bilfinger Industrial Services UK Ltd is the MAIN CONTACT leading multi-discipline industrial services Dave Wilson supplier to the UK Oil & Gas, Refining & Distribution, Chemical and Power industries.

The business has a unique range of

competencies and technical capability

and operating plant and equipment. We

including: • Multi-Disciplined Engineering

Design Services • Process Plant Overhauls

& Shutdowns • Design & Build Solutions •

Specialist Painting & Coating • Thermal

efficient solutions for assembling, maintaining

delivery of engineering and industrial services

allowing us to specialise in developing

provide a combined approach to the

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# Bilfinger Tebodin UK



CATEGORY Engineering Bilfinger Tebodin - Teaming-up and making ideas work Your ambition is our starting point, your strategic objective our driving force. We are dedicated to delivering your project from start to finish - on time, meeting quality requirements and within budget. Bilfinger Tebodin, a multidisciplinary consulting and engineering company, can call on the expertise, experience, and passion for technology, of 3,200 professional consultants and engineers in multiple sectors includina food, chemicals, pharmaceuticals, oil and gas, industrial, environment and energy.

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# Bio-Sep



CATEGORY Biotechnology Bio-Sep is a technology company that has developed a novel, low energy, clean fractionation technology to convert forestry and other lignocellulosic biomass into high purity cellulose, hemicellulose in the form of sugars, and lignin.

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# **Biochemica Group**



Facilities & Site Management Services

Biochemica UK Ltd is a leading water treatment company which operates nationwide and in Ireland to provide industry with a comprehensive package of bespoke water management solutions. The North East's largest private water management firm, Biochemical specialises in cooling, boiler and wastewater treatment, Legionella contro services and commodity chemical supply. Out unique Total Water Manager approach allows us to accurately diagnose water and wastewater operating issues and deliver the most appropriate and cost effective solutions, With our highly experience, skilled team, superior technical service and quality products, Biochemica is committed to innovation and company growth.

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# **Bionow**

CATEGORY



CATEGORY Biotechnology

Bionow is a specialist business development and services company focused on the biomedical sector across the North of England. We provide innovative products and services that deliver tangible value, enabling our members to be the most productive and competitive in the world. Our members include biotech, pharmaceutical, healthcare and medical device companies and the specialist supply chain. Our offering spans procurement, insurance, recruitment, training, specialist events and access into a vibrant network of businesses, Universities and NHS organisations.

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# **Blackmonk Engineering**



Blackmonk Engineering is a professional customer focussed process engineering consultancy based in the heart of the North East process industry. We offer a variety of services including: conceptual design, process modelling, flowsheet and P&ID development, relief and blowdown studies. retrofit design, economic analysis, plant troubleshooting, safety & environment studies and technical training. We specialise in process calculations and offer a full checking and approval service.

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### CATEGORY

Engineering

# **BLH Nobel (VPG Systems UK)**



high-performance solutions for weighing and batching in the process industry. Our systems perform with high accuracy over a wide temperature range despite vibration and other harsh conditions. Our systems are currently in use in varied applications including reactor vessels, ingredient storage bins, batching processes and many others. The KIS beam family of load cells developed by BLH Nobel has become an industry standard for quality with high performance. If standard load cells aren't a perfect fit for your needs, we can provide custom-made products to suit the specific requirements of you industry, application or plant.

BLH Nobel design and manufacture

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# BOC

**CATEGORY** 

**Engineering Equipment** 



**CATEGORY** Chemicals

BOC is renowned for the delivery of valueadded solutions based on the supply of industrial gases. In Teesside BOC operates one of the worlds largest industrial gas

pipeline grids supplying hydrogen, oxygen nitrogen and argon to leading companies and has expansive capabilities to supply the complete range of gases throughout the North East. BOC is part of The Linde Group, one of the world's leading industrial gases companies with gases and engineering sales of €17.0 billion and around 65,600 employees

in more than 100 countries worldwide.

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# **Body Balance**



injuries but offer a range of massage therapy as well as hot stone therapy and aromatherapy.

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# **Bonaccord**

CATEGORY

CATEGORY

Professional Services

Recruitment & HR



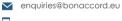
Bonaccord is a multi awarding winning law firm specialising in the support of science based businesses. We primarily work with life science, food & drink, space and satellite entrepreneurs, specialty chemical and innovative engineering companies from start ups to multinationals. Services range from securing investment, corporate organisation and intellectual property strategy to R&D collaborations, licensing deals, manufacturing and international distribution agreements. In collaboration with our multidisciplinary international network we can assist clients expand across Europe and

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# **Boomerang Consultancy**



CATEGORY **Business Support** 

Boomerang Consultancy is a North East based company that are focused on helping companies of all sizes: Review, Complete and Submit PQQs/Tenders; Manage the Full Bid Life-Cycle and Provide Bespoke Bid Training; Create New / Update Core Policy Documents; Implement ISO Standard Management Systems which include:ISO 9001 Quality Management; 14001 Environmental Management; 18001 OHAS Health and Safety; 22301 Business Continuity; 27001 Information Security Management; Undertake Operational, End to End, Service Reviews and Audits both in the

UK and Overseas. Contact us for a free, no

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# **Boulting Environmental Services (BES)**



#### CATEGORY

Facilities & Site Management Services

Established in 2002 BES have agined an enviable reputation within the research. development and manufacturing sectors. We excel in the design, construction and refurbishments of cleanrooms, laboratories and other sophisticated environments - where we provide a full range of services from front-end design and consultancy through to construction, commissioning and validation. The strength of BES lies in combining design and innovation with construction excellence to provide fully integrated solutions. Our reputation has been built on the successful delivery of complex projects - often within challenging time constraints, and always with enormous enthusiasm and a desire to exceed expectations.

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# **Bouygues Energies & Services**



**CATEGORY** Engineering

Bouygues Energies & Services is a partner in the provision of fully integrated process engineering and facility solutions with critical, high-tech market sectors from demonstrator to full scale manufacture. Our flexible customer focused in-house consulting & contracting capabilities from architectural, structural through to process, mechanical, electrical engineering, controls, instrumentation, test and inspection, commissioning and valuation, ensure the delivery of optimised asset capital and lifecycle strategies. We promise to deliver lifecycle solutions tailored to our client's individual needs, from front end studies through to infrastructure construction and

Part of the Brenntag Group, the global market leader in full-line chemical distribution.

which provides global business-to-business

manufacturers and chemical users. Our local

site based in the North East and soon to be

re-located to Sunderland, offers its business

added services such as filling services and

mixing and blending, as well as technical support and services for various industries

within the life science, environmental and

material science sectors.

partners a wide range of products and value

distribution solutions for industrial and

specialty chemicals by linking chemical

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# **Brenntag Birtley**



CATEGORY

Logistics & Distribution

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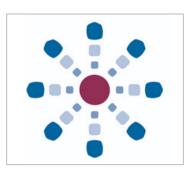
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Longshanks Lane, Birtley, Chester-le-Street, County Durham, DH3 1QZ

# Britain's Energy Coast Business Cluster (BECBC)



CATEGORY **Business Support**  Britain's Energy Coast Business Cluster (BECBC) is a private sector led group of over 320 organisations, ranging from sole traders/SMEs to global blue-chip corporations. Our diverse membership includes international, specialist and competitive companies, many of which offer high value jobs in the region, as well as those in the supply chain and companies key to Cumbria's rural economy. We help member companies share knowledge and market intelligence, network and build links at our monthly events and actively promote their capabilities.

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# **British Association for Chemical Specialities (BACS)**



currently totalling around 130, operate in the speciality chemicals sector of the chemicals supply chain, BACS provides members with access to timely, targeted and relevant information on industry and regulatory developments and aims to provide a collective voice for members to represent their interests at the UK and international levels by working to shape and mitigate the impact of legislation on their businesses. BACS also runs seminars, conferences and training courses which are open to non-members as well as to members.

British Rema is one of the UK's longest

processing, we provide a flexible, cost-

effective and efficient solution for milling,

of powders and resins in our ISO 9001:2015

air classifying, and mixing and blending

accredited contract processing facility.

Alternatively, we can supply our powder

processing equipment and systems. Our

engineers have designed and project-

managed major turnkey installations in

worldwide.

the chemicals and associated industries

established powder processing businesses

and was a pioneer in the fields of particle

size reduction and particle size control. For

customers looking to outsource their powder

BACS is a trade association whose members.

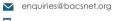
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# **British Rema**

CATEGORY

Business Support



CATEGORY Contract Manufacturing MAIN CONTACT

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# **Bulkhaul**



Bulkhaul Limited is an independent business which was established in 1981 and is dedicated to the global transportation of bulk liquids, powders and gasses. The operations centre is based in the UK and Bulkhaul's tank units in transit around the world are regularly routed through the company's own workshops on Teesside in North East England for monitoring and maintenance. Modern maintenance facilities are also now available at the company's Frankurt site.

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# CATEGORY

Logistics & Distribution

# **Business & Export Credit Solutions**



Business Export and Credit Solutions Ltd (BECS) are market leaders in credit control and export legislation and procedures. All businesses need a steady flow of cash to keep them operational and solvent yet often this isn't possible because of outside influences. Even more worrying is when the cause is found to be coming from the business itself as a result of employing poor management practices. At BECS we are passionate about helping companies get paid on time. This allows them to maximise their profit margin leading to growth and investment in their business.

Business Doctors offer 'hands-on' support to

business owners helping them to overcome

them to achieve business growth. Whilst we

not traditional consultants. Our approach is

different and involves getting into the nuts

and bolts of businesses providing practical

advice every step of the way.

operate within the consulting industry we are

their individual challenges and supporting

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# **Business Doctors**

**CATEGORY Business Support** 



**CATEGORY** 

**Business Support** 

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# **BWC Performance (Beyond World Class)**



CATEGORY

Health, Safety & Environmental

If you are having injuries on your site then we can guarantee that you have opportunities to improve your productivity. We also have a morale responsibility not to injure people through our activities. We have carried out

many assessments (100+) and are yet to visit a site or factory recording serious injuries while performing at world-class levels of operational performance. When it comes to neonle or process safety operating discipline and compliance are key behaviours that are often missing in these cultures.

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# Calysta (UK)

CATEGORY

Biotechnology



Global stakeholders from individual consumers to major corporations have identified sustainability-how global systems, biological or otherwise, endure and remain diverse and production – as an important criterial in their decision making today and planning for the future. Calysta is creating new pathways to sustainable nutrition, industrial materials and transportation fuels. Calysta is achieving this using a novel biological process to convert readily available, low cost methane into high value products to meet rising global market demand.

& Novartis); prominent Universities and

Research Institutes (MRC, Cancer Research

antibodies, fluorescent dyes, PNA and radio-

UK) committed to disease research at the

molecular level. The company supplies research reagents (tools) such as peptides,

ligands to a global market.

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The Wilton Centre, Wilton, Redcar, Tees Valley,

# **Cambridge Research Biochemicals**



CATEGORY Biotechnology Cambridge Research Biochemicals (CRB) MAIN CONTACT based in Billingham, Teesside has over 35 **Emily Humphrys** years of excellence in producing custom Commercial Director peptides and antibodies to the world's

emily.humphrys@crbdiscovery.com Life Science market. Typical customers +44 (0) 1642 567 180 are researchers with the major global Pharmaceutical R&D divisions (Pfizer, GSK

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# **Cavendish Northern**



CATEGORY Engineering

Cavendish Northern Ltd are a Pipework and Mechanical Installation Contracting Company who specialise in Offsite Pipework Fabrication, Onsite Pipework Erection and Pressure Testing, Process Skid Manufacture and Installation, Mechanical Equipment Installation, Bulk Liquid Storage Tank Manufacture and Repair, Pressure Vessel Manufacture and Renair Contract Lift Management & Execution, Cranegae, Plant Hire and Labour supply. Our Head Offices are in Billingham, Teesside where we have a 29,000sqft fabrication shop with 10T Over Head Craneage, 44,000sqft secure external laydown area and 6000sqft offices.

CDS Recruitment Ltd is a specialist technical

including Chemicals, Pharmaceuticals, Oil &

Gas and Power Generation throughout the

cover the full range of Engineering functions

Management; Materials Engineering; Quality

& Process Engineering; Manufacturing and

Engineering Management; Maintenance,

Service & Commissioning; Purchasing &

Logistics; Technical Sales.

UK and internationally sourcing temporary,

contract and permanent personnel to

such as: Design & Development; Project

recruitment company working within key

manufacturing and engineering sectors

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# **CDS Recruitment**



**CATEGORY** Recruitment & HR

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The Clervaux Exchange, Clervaux Terrace, Jarrow, Tyne & Wear, NE32 5UP

# **Cellular Solutions (NE)**



CATEGORY IT & Telecoms

Founded in 1995, Cellular Solutions works with companies to improve communication, operations and processes. It provides communications and business systems including mobile, landline, broadband, software and digital solutions – to organisations ranging from start-ups and SMEs to large, multi-site organisations. Cellular Solutions combines extensive industry expertise and close customer support with state-of-the-art software to streamline its customers' processes. It has vast experience of delivering business, manufacturing, engineering and finance software solutions from companies such as Sage, Panintelligence, Draycir and Sicon.

### MAIN CONTACT

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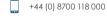
### **CONTACT DETAILS**



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Ferryboat House, Ferryboat Lane, Sunderland, Tyne & Wear, SR5 3JN

# **CF Fertilisers UK**



GrowHow UK Limited is a joint venture company owned 50:50 by CF Industries Inc and YARA International ASA with a turnover in excess of 500 million euros. It has two manufacturing sites in the UK – Billingham (Teesside) and Ince (Cheshire). The company is the UK's leading manufacturer of ammonia, nitric acid, ammonium nitrate and granular fertilisers. It is also a supplier of Utilities at its Billingham Site

#### MAIN CONTACT

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Billingham Production Centre, PO Box 81, Billingham, Stockton-on-Tees, TS23 1XT

# **Chemical Engineering and Advanced Materials**



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Minerals & Fertilisers

Established in 1954, Chemical Engineering at Newcastle has undergone many changes. The formation of the School of Chemical Engineering & Advanced Materials in 2002 reflects the evolution in the field, consolidating Newcastle's status as the regional centre for education and research in the discipline. We offer recognised undergraduate degree programmes and industrially relevant taught and research postgraduate programmes. Our internationally renowned researchers provide knowledge and expertise in all areas of Chemical Engineering. With access to specialist equipment and expertise, find out how your business can benefit from working

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# **Chemical Industries Association**



The Chemical Industries Association (CIA) is a national representative body for all chemical and pharmaceutical businesses in the UK. Our mission is to make the UK business climate as internationally competitive as possible to help boost chemicals and pharmaceuticals trade and investment. Our activities are split between influencing the policy agenda and the provision of practical advice and services to our members. Our policy agenda, delivered by recognised national and international experts, covers businesscritical issues such as tax, trade, innovation, energy and climate change, safety, health and environment, product management, regulation, education, skills and employment.

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# **Chemical Process Solutions**



CATEGORY **Engineering Equipment** 

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**Business Support** 

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# **Chemicals North West**



Chemicals Northwest is the industry-led. chemical cluster support organisation for the £10 billion North West chemical sector. the largest in the UK. We are a funded by our members and owned and supported by the Chemical Industries Association. We are a membership organisation that supports and promotes the interests and activities of the chemistry-using industries.

The companies and research institutions of

the Bavarian chemical industry are linked

via Chemie-Cluster Bayern. As part of the

Chemie-Cluster Bayern promotes product

and process innovations for new, usually

international markets.

Bavarian State Government's cluster initiative,

Chemical Process Solutions is one of the UK's

Thermoplastic Process Plant. With many years

leading designers and manufacturers of

experience working within the Aerospace,

Electronic and Water Industries, CPS can

turnkey solutions throughout the UK and Europe. Products range from bulk storage

and process vessels in Polypropylene and

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processing lines and chemical dispense

systems. CPS Heat Recovery Systems are

costs and carbon emissions.

designed and manufactured for laboratories

and cleanrooms, recovering waste heat from

corrosive extraction streams to reduce energy

provide thermoplastic products and

Semiconductor, Chemical, Pharmaceutical,

#### MAIN CONTACT

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# **Chemie-Cluster Bayern GmbH**



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# **Chemoxy International**

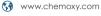


CATEGORY Contract Manufacturing

### MAIN CONTACT Ian Stark

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# **CIEC Promoting Science**



The Centre for Industry Education Collaboration (CIEC) is celebrating its 30th anniversary, of creating relationships between schools and industry, enhancing science teaching and introducing school pupils to the possibility of a career in industry. One of its core activities is the Children Challenging Industry Project (CCI) where advisory teachers, funded by local industry train those in industry to deliver effective site visits, following delivery of science lessons to 9 – 11 years old pupils and also provide professional development for the teachers in each school.

Chemoxy International Ltd is one of

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manufacturing services to the chemical

fractionation and has two sites on Teesside

served include, cosmetic ingredients, oil & gas, petrochemicals, fuel additives,

garochemicals, flavour & fragrances and

of low toxicity solvents, including Estasol™

in solvent recovery activities.

and Coasol™ which are used in paints and

plastic additives. Chemoxy produces a range

cleaning products. Chemoxy is also engaged

at Middlesbrough and Billingham. Industries

industry. The company has specialised

expertise in combined reaction and

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# **CK Group**

Education & Training

CATEGORY



service for the scientific, engineering, clinical and IT industries through its dedicated divisions: • CK Science – ckscience.co.uk/ • CK Technical - cktechnical.co.uk/ • CK Clinical - ckclinical.co.uk/ Our professional consultants source high calibre permanent and temporary staff from our nationwide offices on behalf of companies ranging in size from SMEs to global industrial leaders.

CK Group provide a nationwide recruitment

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CATEGORY

Recruitment & HR

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# **Cleansing Service Group**



CATEGORY

Waste Management & Recycling

waste management companies. The company operates from 28 sites stretching from Cornwall to Kent and up to Manchester and Middlesbrough. CSG service many waste streams ranging from metals recovery

CSG is one of the UK's largest independent

to chemical waste: oil recovery to the treatment of contaminated construction industry wastes; spills clearances to sewage clearances. The company invests heavily in research and development and has constantly sought to develop a portfolio of processes designed to maximise waste recovery rates on behalf of its customers which include local authorities, a range of industries, supermakert chains, utility

companies and universities.

#### MAIN CONTACT

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# **Community Union**



Community is creating a new kind of trade union. We've spent decades protectina workers in the UK, and we're now opening our doors to everyone. So no matter how or where you work, we can protect your job, your living and your family life. We know the world of work is changing, and many of us are feeling less secure than ever before. That's why we've updated our offering, to make sure we can always be there for you.

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related needs. Complete Material Handling is

an energetic company delivering a premier

service to our customers. Complete are an

approved supplier for TCM products and also

supply all makes and models of forklift trucks

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sales, service, hire and training for all of your

material handling equipment. Please contact

solutions for your business. Complete offer

us via email or telephone.

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# **Complete Material Handling**



**CATEGORY** 

**CATEGORY** 

**Business Support** 

Facilities & Site Management Services

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# ConocoPhillips Petroleum Co. UK



CATEGORY

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Education & Training

Petrochemicals

North Sea, including NGLs being landed via the CATS pipeline. The facility originally constructed in 1974 is undergoing a significant amount of investment to secure production beyond 2050. As a safe, consistent and cost effective operator with an excellent record of reliability, Teesside operations is committed to continual improvement in the delivery of quality products.

The Teesside operations of ConocoPhillips

pipeline from the Ekofisk area. Subsequent

both the Norwegian and UK sectors of the

processes, stores and ships crude oil and

natural gas liquids (NGLs) received by

developments have led to additional

production being added from fields in

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Teesside Operations, Seal Sands, Middlesbrough, Tees Valley, TS2 1UH

# County Durham & Darlington Fire & Rescue Service CIC



Providing professional dynamic and quality training solutions. Including Industrial training from our state of the art training centre, NEBOSH, IOSHÂ and ILM qualifications. We also sell Fire Safety products

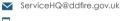
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# County Durham Engineering & Manufacturing Network



CATEGORY **Business Support**  CDEMN are the organisation tasked with supporting the ever widening engineering / manufacturing sector. We work across all disciplines providing opportunities and support for businesses, removing as many obstacles for growth as possible using our rapidly growing network. We support our members by proactively providing direct opportunities in various forms from manufacturing opportunities to supply chain, funding and training. Our professional support network is also second to none further enabling us to find the correct solution to the many enquiries that we receive.

### MAIN CONTACT

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# **Covol Engineering**



Engineering

**CATEGORY** 

**Business Support** 

Engineering change for evolving businesses. Specialising in Electrical Engineering and Control & Instrumentation. Combining 40 years of engineering expertise with nextgeneration technologies and services.

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# **CPI - Centre for Process Innovation**



At CPI we work with our partners to develop products and processes that enhance health and well-being, protect and improve our environment and increase productivity across industries. Our partners operate across diverse markets including Healthcare, Food & Agriculture, FMCG, Electronics, Energy, Transportation and Construction. CPI is able to support these industries through our unique innovation processes, together with our diverse and expanding platform of technological expertise. These include therapeutic biologics, industrial biotech, nanotechnology, chemistry and formulation, printed electronics and sensors.

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# CSC Services UK (Confined Space Contract Services UK)



and specialist coatings, including concrete repair, cathodic protection, leak-sealing, waterproofing and anti-corrosion coatings. With over 18 years of experience in providing repair services and protective coatings, CSC Services offer a safe, reliable and quality service that is always guaranteed. You can be assured that CSC Services will provide the optimum solution for your coating or refurbishment requirement; installed to exact specification by fully trained and experienced operatives.

CSC Services provide refurbishment services

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# **CATEGORY**

**Engineering Services** 

### **CY Partners**



CATEGORY Recruitment & HR

Recruitment Specialists (Science, Engineering and Technology). CY Partners are the specialist for scientific, engineering and technology recruitment, providing the best candidates for Chemical, Pharmaceutical and Life Science sectors. Our recruiters are qualified scientists and engineers, having worked in industry and/or academia. As a consultancy, we are able to work at all staffing levels - from entry level roles through to those difficult to find and niche senior scientific specialists, and provide staff on a permanent, temporary or contract basis.

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Gateway West Business Centre, Gateway House, Gateway West, Newburn Riverside Newcastle-Upon-Tyne, Tyne & Wear, NE15 8NX

# **David Fox Transport**



David Fox Transport is a medium-sized. family-run business which holds dear the traditional business values of commitment. service and quality with which the company was established in 1969. We specialise in the transportation of steel, newsprint and non-hazardous chemicals, but can offer solutions to your haulage and transport needs - whatever they are. We can be of service to you from almost anywhere across the country as we operate out of 3 strategically placed depots in Middlesbrough, Immingham and Leeds

#### MAIN CONTACT

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1A Bolckow Road, Grangetown, Middlesbrough, Tees Valley, TS6 7BN

# **DBA HR Solutions**

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Logistics & Distribution



CATEGORY Recruitment & HR DBA HR solutions Limited is a highly successful Human Resources consultancy with extensive experience of the NEPIC industries. Our flexibility, responsiveness and results orientation are valued by our retained clients in both large multi-national corporations and SME sector. We produce individually tailored proposals ensuring you get exactly what you want (not pre-packaged solutions) and with our extensive, highly experienced, network of associate consultants can efficiently manage large scale projects. Our core expertise covers recruitment across all disciplines & levels, management development & coaching, employment law guidance, provision of temporary staff as well as HR project management.

### MAIN CONTACT

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### **Definition IP**



CATEGORY **Business Support** 

**CATEGORY** 

Definition IP are UK and European Patent Attorneys with offices in Newcastle and Dublin. We have significant expertise in the chemical, life sciences, medical device, engineering and software fields. Our attorney-led team works closely with Clients to understand their business objectives and to ensure that their Intellectual Property is appropriately protected, integrated and leveraged. We provide clear commerciallyfocused advice and services relating to Intellectual Property. Our services include drafting, filing and prosecuting Patent Applications through to grant, preparing

and filing registered Design Applications

and assisting with Trade Mark and Copyright

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# **Denholm Industrial Services**



Facilities & Site Management Services

scaffold & specialist access systems. Denholm Industrial Services Ltd have over 40 years experience in the industry and are part of the 150yr old Denholm Group. In 2017 Denholm have opened a north east regional office in Newton Aycliffe, Co. Durham to provide an efficient and reliable service to our north east based customers.

Denholm Industrial Services Limited are

maintenance painting, specialist coating

application, shotblasting, pressure washing,

a support services contractor offering

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# **Department for International Trade**



CATEGORY **Business Support**  DIT North East works with businesses of all sizes, providing advice, expertise and support to ensure your success within international markets. Whether you are a new or experienced exporter, DIT can provide you with the knowledge and expertise of highly experienced international trade specialists who will support your entry into new markets with confidence, Please contact the DIT team on 0345 136 0169 to find out how we can help you develop trade overseas. Follow us @ tradegovuk\_UK to keep up to date with the latest news.

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UKTI North East, NECC, Aykley Heads Business Centre, Durham, County Durham, DH1 5TS

# **Derwent James**

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Providing outstanding safety equipment, consultancy and expertise for your company. Because safety is a necessity, not a commodity. Exclusive UK agents for Dopak sampling systems and agents for Elaflex hoses, Total Lockout tagout and Interlocks, High pressure valves and pipeline expansion joints

#### MAIN CONTACT

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# **Design Research and Development Company**



DRD Consultants was established in 1988 and specialises in all aspects of Process Engineering. DRD's consultancy services range from conceptual studies and technology evaluation trough to detailed process design studies. We carry out process investigation, process development and economic appraisal, safety audits, Hazops, plant commissioning and solve operational problems. DRD has specialise expertise and experience in resource efficiency and has developed a process for recovering waste low grade heat as electricity using the Organic Rankine Cycle.

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H235, Wilton Centre, Wilton, Redcar, Tees

# **DJM Aerial Solutions**



CATEGORY Facilities & Site Management Services DJM Aerial Solutions are a Commercial UAV Service Provider, based in Teesside. Ideally positioned to cover the North East of England and UK. Specialising in asset integrity inspection and survey. We are qualified Engineers, with the ability and experience to structure bespoke reports and interpret the acquired data utilising our broad skill set and experience developed over the 20 + years that we have been involved within industry. These key advantages throughout our diverse range of skills and combination of top-class training and personal development place us well ahead of our immediate adversaries.

### MAIN CONTACT

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### **CONTACT DETAILS**



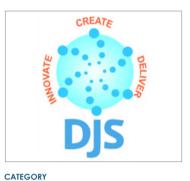




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# **DJS Process Consulting**



DJS Process Consulting Ltd. was formed by David J Smith BSc., CEng., CSci., FIChemE. Focusing on formulated products, the company's mission is to help clients at all stages of the product development cycle from upstream innovation to delivering an efficient and profitable manufacturing process. DJS Process Consulting Ltd. will provide strong technical knowledge to move you from formulated product concepts to the selection and design of robust process equipment options to make products at any scale, with the required quality attributes and within identified cost constraints.

#### MAIN CONTACT

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# **Doosan Babcock**

**Engineering Services** 

**CATEGORY** 

Engineering

**CATEGORY** 

Logistics & Distribution



Doosan Babcock is a specialist in the delivery of engineering, aftermarket and upgrade services to the power generation, oil and aas, petrochemical and pharmaceutical sectors. With a focus on the delivery of low-carbon technologies and an industryleading project management capability, the company builds, maintains and extends the life of customer assets worldwide. Doosan Babcock is part of a powerful combination of companies united under the Doosan Group to deliver complementary technologies, skills and value to customers the world over.

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# **Durham Tees Valley Airport**



and chartered services for both leisure and business passengers to a range of destinations. Services include popular Winter and Summer destinations across Europe and essential business routes to Aberdeen and Amsterdam Schiphol, KLM Royal Dutch Airline's hub airport, which offers onward connections to hundreds of destinations worldwide.

Durham Tees Valley Airport offers scheduled

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Durham Tees Valley Airport, Darlington, County Durham, DL2 1LU

# **Durham University**



CATEGORY Education & Training

Durham is a leading research university and is ranked in the top five of UK universities and in the top 100 globally. Our science research is world leading, a large proportion is interdisciplinary in nature and is supported by flagship Research Institutes. Durham University provides world-class innovation, research capabilities, and business solutions to help our partners achieve the results they want. Our Centre for Sustainable Chemical Process represents researchers with diverse research interests including hetero- and homogeneous catalysis, high-pressure reactions fluorine, flow and aqueous chemistry.

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# **Durhamlane**



durhamlane is a sales transformation consultancy that helps organisations increase sales and thus revenues in a sustainable way. Our three service lines - Outsourcina, Training & Recruitment improve sales performance using our proven Selling at a Higher Level methodology that drives better business conversations and helps people to spend their time where they can be most successful. Since 2011, we have been invited in by organisations who are struggling to achieve their sales objectives. We help companies become more commercial by improving the performance of their people, processes and pipeline.

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# **Dyer Engineering**

CATEGORY

Education & Training



CATEGORY Engineering

Dyer Engineering can offer a truly one stop shop to support the local and national process industry. Our TechProjects division have the in-house capability, capacity and project management skills to fabricate, machine and paint anything from simple bracketry and pipework to full quality critical new process plant and production facilities in a range of materials including stainless steel. Our JobShop division can support our customers with any on-site installations of pipework, quick turn around component manufacture and part manufacture, new production lines and moves, together with retrofits and upgrades.

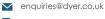
### MAIN CONTACT

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www.dyer.co.uk





Solutions House, Morrison Road Industrial Estate, Annfield Plain, Stanley, County Durham, DH9 7RU

# **E&I Solutions**



Electrical and Instrumentation installation engineering services. Instrumentation installation in Analogue, Digital and Profibus systems including all control room and field works from pre-calibration activities of instrumentation through installation and commissionina.

Eastern Seals (UK) Ltd has rapidly grown into

a leading supplier of sealing products. This

growth has been founded on our fantastic

staff; Diane Reach (Managing Director) and

stock holding and the experience of our

Steve Marshall (Sales Director), both have

over 30 years' sealing experience. Eastern

Seals specialise in a wide range of sealing

temperature Perfluoroelastomer, Specialist

Applications. We also supply NORSOK M-710 approved materials to the Oil and Gas sector.

EcoSurv Ltd is an independent ecological

ecological products of the highest quality.

At EcoSurv we offer a complete service from

species and habitat survey through habitat

management plans and the development

implementation. We are able to provide a

way to proceed with your given project.

personalised service and advice which goes

beyond the survey report and shows the best

sustainable ecological services and

of mitigation strategies to project

consultancy with a reputation for providing

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well as Spring O-Rings™ for Cryogenic

products. In particular we provide High

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CATEGORY

Engineering

# Eastern Seals (UK)



**CATEGORY Engineering Equipment** 

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### **Ecosury**



**CATEGORY** Health, Safety & Environmental

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# Elisian



CATEGORY IT & Telecoms

Flisian Limited is a software provider focused on delivering solutions to both the Oil & Gas and Public sector communities. Elisian have two main product suites that we continually develop and support for these communities, those being the eLogbook solution which is used to improve reliability and manage

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#### Corporate serviced apartments in the North MAIN CONTACT East of England and North Eastern Spain -Tees Valley & Barcelona Province. We are

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### **CATEGORY**

Professional Services

# **Engica Technology Systems International**



### CATEGORY

Health, Safety & Environmental

Engica are specialists in work and safety management systems. We are trusted by global clients across multiple hazardous industries to deliver software solutions combining outstanding technology, high quality implementations and role-based training with responsive support. Our Q4 modules can be installed separately to complement and enhance existing systems or as a total digital Enterprise Asset Management solution. Our range includes software modules for managing safety, as well as assets, work / maintenance, inventory and procurement. Q4 products are designed to maximise our clients time to value through rapid deployment and extensive on-line configuration to match precise business

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# **ENGIE Fabricom**



**CATEGORY** Engineering

ENGIE Fabricom, part of the global group ENGIE, is uniquely positioned within the engineering, procurement and construction market to provide end to end solutions to our clients. This is achieved by combining high level engineering skills with a wealth of construction expertise and capability across all UK industry sectors including Oil, Gas. Power, Chemical, Energy From Waste and Renewables.

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# **Ensus UK**



CATEGORY Bioresources & Renewables Ensus's aim is to become a leading provider of sustainable bioethanol to the European transport fuels market by refining arable crops such as wheat into food and fuel. Ensus refineries will reduce greenhouse gas emissions, improve food and energy, security and reduce European demand for animal feed imports that contribute to global deforestation. Ensus' approach to making bioethanol by refining wheat grown in Europe is sustainable and offers a renewable and environmentally friendly additive for petrol driven vehicles. Production on the first plant at Wilton began in Feb 2010.

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# **Enviresearch**



CATEGORY Health, Safety & Environmental Enviresearch Ltd. is a regulatory consultancy based in Newcastle-Upon-Tyne. We provide REACH regulatory services for the global chemical industry as well as complete registration dossiers for biocides and plant protection products. With technical excellence and innovative solutions our dedicated group of consultants can help ensure your product security. Our experts have come together from a range of backgrounds: agronomy, chemistry, environmental fate, ecology, endocrine disruption, risk assessment and regulatory affairs. This is the place where you will find

your specialist consultant.

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# **EON Energy Solutions**



CATEGORY Energy & Utilities

Our Energy Solutions business supplies power and gas to over 5 million domestic, small and medium-sized enterprise and industrial customers across the country. With customers at its heart, Energy Solutions also offers innovative energy services and technologies tailored to meet its customers' needs. The business is designed to help customers become energy fit by encouraging them to insulate their homes, moderate their energy usage and even to generate their own power through microgeneration systems such as ground source heat pumps and solar panels for both homes and businesses.

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# **Equipment Supplies & Consultancy Services**



ESCS Ltd are a worldwide manufacturer and distributor of surface preparation and surface coating equipment. Supplying equipment to the Oil & Gas, Petrochemical, Wind Energy, and Power Industry's. ESCS can provide a complete service to material manufactures and applicators offering to undertake a wide range of activities to assist in developing equipment to suit the requirements for the spraying and delivery of such materials that require a reliable and repeatable quality of application for both high and low viscosity coatings.

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# CATEGORY

**Engineering Equipment** 

# Essity UK



Essity UK Limited is a global consumer goods and paper company. We develop, produce and market personal care products, tissue. publication papers and solid-wood products in more than 90 countries. We create value through knowledge of consumer and customer needs, regional presence and efficient production.

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# **Evolution MRO**

**CATEGORY** 

Consumer Goods



**CATEGORY** IT & Telecoms As part of the NBT Group which has been established since 1908, Evolution brings together the worlds most advanced and effective MRO technologies and services for delivery to progressive, global manufacturers seeking to gain increased control of their indirect materials to drive efficiencies that rapidly hit the bottom line. Providing a modular based end-to-end offering, Evolution provides a complete control solution from sourcing, procurement, storage and use to payment delivered by our unique software & hardware technology offering.

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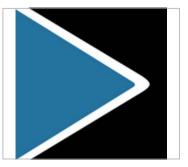
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# **Exwold Technology**



companies around the world. Compaction. impreanation and coating, blending, milling and classification are included in our wide ranging portfolio of powder and granule processing technologies. We are internationally recognised specialists in the formulation and supply of low pressure extruded granule products primarily for the agrochemical industry. As a progressive, growing company, building strong & long term partnerships with our clients is the key to our success.

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# Falck Fire Services UK



CATEGORY Health, Safety & Environmental

Emergency Planning, Prevention, Protection and Response, Falck Fire Services protects delivers business continuity and asset protection through an integrated service with firefighting, medical services and site management at the core. Falck is the leading private provider of fire services globally, protecting oil, gas, petrochemical, airports, energy, steel, automotive, and other high-risk industries. Whether you require a total managed solution or specific services, we can provide an offering tailored specifically for your location. Our accredited service is supported through specialised hazard management and risk assessment

capabilities as well as world class training on

site or at our specialised training centres.

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# Falck Safety Services (Falck Nutec)



### CATEGORY

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Global Health & Safety training provider Flack Safety Services operate purpose built training Centres in the UK in Teesside and Aberdeen. We provide realistic accredited training, competency assessments and medical services supporting the Process Industry, Offshore Oil & Gas, Maritime, Renewable Energy, Military and Public Sector. Our clients range from large multi-national companies to smaller operations looking to develop and grow by building their competence, skills and experience. Our industry-leading centre for excellence in Teesside features a 23.7m

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# **FEG**



**CATEGORY** Engineering

MAIN CONTACT Management and Consultancy for industrial. Chris Williams manufacturing and process industries. With

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# **Fine Organics**



CATEGORY Pharmaceuticals Fine Organics Limited (FOL), a Lianhe Chemical Technology company, is a fine chemical contract manufacturer serving the Pharmaceutical, Agrochemical and Speciality Chemical markets. Fine Environment Services (FES) operates a thermal oxidiser and is available to accept hazardous chemical waste from third parties.

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# **FoCul**



CATEGORY IT & Telecoms

FoCul is unusual for an IT company FoCul was started in 2000 by practising Engineers who were frustrated at the lack of good software for managing knowledge and collaborative processes. Our whole approach is around our team of experienced Engineers and IT Developers delivering the excellent service and solutions that we would have wanted as manufacturing professionals. We understand what it is like to be you and how to deliver projects into your busy environments. We also understand that our role is as a long term partner ensuring that your software solutions continue to be both effective and efficient as your needs change.

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# **Forrest Digital**



**CATEGORY** Marketing, PR, Events, Design & Printing

Internet Marketing specialists with over a decade of experience in delivering successful, profit-enhancing campaigns and training for B2B clients in the chemical and pharmaceutical and manufacturina industries. We support our clients in the development of online strategies for international and local markets, in the implementation of search and social marketing strategies, and in the specification and procurement of new web-based platforms, which will help grow their business. Google Partners since 2011, we are at the global leading edge in the provision of paid search and display marketing campaigns which attract and retain new clients and increase brand awareness.

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# **Francis Brown**

CATEGORY

Engineering



Francis Brown was formed in 1903 and is recognised as a global leader in the supply of fabrication and engineering services to the Renewables, Chemical, Oil and Gas, Rail, Nuclear, Power and Construction markets. As a family run business – now in its fourth iteration of family leadership – we are known across the world as a leading and independent supplier of complete turnkey engineering solutions that are cost effective, highly compliant and made safely.

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# **Frazer-Nash Consultancy**



CATEGORY Engineering Frazer-Nash excels in solving complex industrial challenges, especially relating to the management of ageing, high value & critical assets. With >20 years' experience across high hazard, highly regulated industries we understand what's important to our customers - high quality results. complete reliability, value for money and husiness resilience. We gain a comprehensive understanding of our clients' problems and then deliver the right combination of intellect, experience and innovation. We care passionately about delivering real solutions for our clients, often where conventional methodologies have failed or are not applicable

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# Fujifilm Diosynth Biotechnologies



**CATEGORY** Biotechnology

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services from cell line and strain development

to process development, analytical

manufacturing.

development, clinical and commercial

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# **Future Industrial Services**



**CATEGORY** 

Facilities & Site Management Services

FIS are a national service provider of specialised industrial and waste management services falling under three main categories: - Specialist Recoveries: Metal recovery (copper, nickel & tin), sludge recovery plant, filter cake and catalyst recovery, mercury recovery and secondary manufacture of copper products. Industrial Services: Tank cleaning, high pressure jetting, drain cleaning, plant decommissioning, industrial tanker services, dry vacuum services, rope access, confined space, DISAB units, vacuum tankers, jetting combo units and mobile filter presses. Hazardous Waste Management: Hazardous and nonhazardous waste treatment, disposal and recovery services, bulk waste collections, APCr logistic service, oil and water treatment, export and recovery

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# **FW Capital**



CATEGORY Professional Services

CATEGORY

**Engineering Services** 

FW Capital is a fund manager based in the North of England. We make commercial investments into local businesses with strong growth potential. In the North East we manage a number of funds. The Tees Valley Catalyst Fund offers short-term debt investments to fund advanced payment guarantees, performance and warranty hands ar extend existing hand facilities. While NPIF FW Capital - Debt Finance provides growth capital investments from £100k to £750k to expanding businesses across Tees Valley giving them access to the capital they need to realise their expansion plans through investing in new equipment, premises, staff, systems and product lines.

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# **G Mech Engineering Services**



G-Mech Engineering Services Ltd offer bespoke maintenance packages and fabrication services to a range of highly regulated industries including Pharmaceuticals, Healthcare, Chemical processing, FMCG and Oil & Gas. PPM & Reactive maintenance packages can be tailored to suit the needs of the client and are often worked around live production facilities or time critical shutdowns. Each package is custom built to suit the site and/or process and consist of Full project management and Mechanical, Flectrical, Software & calibration services can all be integrated into the package by our team of experienced engineers

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# **G Robinson Design Engineering Services**



CATEGORY **Engineering Services** 

We are Engineering Consultants providing expert structural and mechanical expertise.

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# **Gateshead College**



CATEGORY **Education & Training** 

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# GexCon UK

CATEGORY

Health, Safety & Environmental



GexCon AS, part of the CMR group. GexCon have been providing consultancy services in SAFETY AND RISK MANAGEMENT for decades. Our consultants can assist you at all stages of your engineering process, from concept design to process development and safe operation of facilities; from initial hazard evaluation (HAZID) through to continued safe plant operation (HAZOP, QRA, SCRAM). With our expertise in explosion safety we can advise on compliance with the ATFX and DSEAR regulations, and perform consequence modelling with our CFD tool,

GexCon UK are a wholly owned subsidiary of

We're the top performing college in the

region, number two in England and rated

students succeed. At Gateshead College we

means work-ready students with the unique

combination of high quality education and

give our students the employment edge. That

real world skills. We develop our courses hand

in hand with local companies so our students

will have the experience and work ethic to do

Ofsted 'outstanding'. Because we put in

everything we've got to make sure our

their employer proud.

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# **Glacier Energy Services**



**CATEGORY** Energy & Utilities

Glacier Energy Services is a UK-based energy services group operating across the oil and gas, renewables and industrial sectors internationally. Glacier provides specialist services, products and engineered solutions for new and existing energy infrastructure, delivered onsite and from its workshops. Glacier provides products and services for Onsite Machining, Heat Exchangers, Non Destructive Testing and Welding Services, offered as stand-alone or integrated offerings to provide greater value and cost efficiencies

for its customers. The company was formed

in 2011 through the acquisitions of Roberts

Pipeline Machining and Wellclad.

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# **GlaxoSmithKline**



The GlaxoSmithKline (GSK) mission is to improve the quality of human life by enabling people to do more, feel better and live longer. The company develops innovative medicines and products that help millions of people around the world The GSK site at Barnard Castle is a key member of the Global Manufacturing and Supply division and produces some of the world's leading sterile. inhaled and tropical oral medicines. The site makes over 40 different products, exporting more than 90% of 200 million packs produced each year.

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# **GME Industry**

CATEGORY

CATEGORY Engineering Services

Pharmaceuticals



GEM Partnership is a platform for a range of independent and specialist recruitment brands, all underpinned by a common set of core values that reflect and are the foundation for how we work, cooperate and ultimately support our clients and candidates. GEM Professional Services is a specialist in white collar, professional, contact centre, IT, technical and commercial recruitment solutions designed to support a wide range of key sectors. GEM Premium People specialises in blue collar, industrial, trades, hospitality and catering recruitment solutions designed to support clients of all scale.

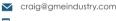
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# Go Limitless Marketing



CATEGORY Marketing, PR, Events, Design & Printing

Go Limitless Marketing are a full service marketing agency that specialise in providing results based solutions for a business. We utilise our skills in marketing strategy, graphic design, website design and development and digital marketing to ensure that our clients receive bespoke care that is setup to maximise their return on investment. Our agency has grown on the back of this philosophy as well as empowering our clients as much as they wish to be when it comes to their marketing, as well as just have a open and honest approach to building relationships with all of our clients.

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# **Graham Hart (Process Technology)**



CATEGORY Engineering

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# **Green Lizard Technologies**



Green Lizard Technologies is a gateway for Industry to work with Queen's University Belfast focused on solving immediate problems and providing a mechanism to incubate new ideas and scope new innovations in a fast and effective manner. Green Lizard Technologies has recently acquired pilot plant, office and laboratory space at the Wilton Centre to test manufacture Epoxy Propanol that can be used to create greener cleaner and safer surfactants, as well as industrial paints and coatings and speciality chemicals

Greenergy Biofuels Teesside Limited operates

one of Europe's Largest Biodiesel plants using

waste feedstocks only. The plant processes

renewable low carbon fuel. The plant also

produces two co-products, Glycerine and

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at the plant is used to meet the Renewable Transport Fuel Obligation (RTFO) targets with

the aim of reducing greenhouse emissions

from vehicles.

used cooking oil and waste fats into a

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equipment. Their knowledge, reputation

and expertise makes them the first choice

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# **Greenergy Biofuels Teesside**



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Bioresources & Renewables

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# **Haden Freeman**



CATEGORY Engineering

### Haden Freeman is a specialist consultancy management and engineering group founded in 1985. Our engineering consultants deliver a range of multi-disciplinary engineering services for the process

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# **Hadrian Technology**



CATEGORY **Engineering Equipment**  Consult, design and install CCTV.

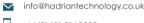
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### Hallidex



CATEGORY **Business Support** 

# MAIN CONTACT

Hallidex Ltd. was formed in 2014 to

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**CATEGORY** Professional Services

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**CATEGORY** Health, Safety & Environmental

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# **High Force Research**



CATEGORY Research, Development & Analytical

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# **High Tide Foundation**



The High Tide Foundation brings together industry and education across Teesside to increase awareness of career opportunities, showcase the region's industry and raise aspirations for young people in the Tees Valley. Our aim is to improve learning and employment opportunities whilst raising aspirations for young people across the region through our unique work experience and industry-led skills programmes.

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# **HLA Services**

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Education & Training



**CATEGORY Engineering Services** 

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# **Horizonworks Marketing**



**CATEGORY** Marketing, PR, Events, Design & Printing

HORIZONWORKS - THE B2B MARKETING SPECIALISTS. We understand, champion and support innovators in complex industries with marketing that is clear, connected and

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your expectations.

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# **Hospitality Guaranteed**



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# **Houghton International Electrical Services**



CATEGORY Engineering Services

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# House of Type (HOT)



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# Imvelo



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# Induchem UK



**CATEGORY Engineering Equipment**  Founded in 1982, the Induchem Group specialises in the supply of process valves, automation, instrumentation and Corrosive Resistant Technologies to process industry throughout the UK. Induchem have forged relationships with World Class Suppliers to the Chemical, Pharmaceutical, Biotech, Energy, Oil & Gas and Food & Beverage industries and built a Repair & Service business that offers our customers an unparalleled value proposition. From advice on equipment selection, through to comprehensive maintenance programs, Induchem are a cradle-to-grave partner who will help you to achieve the reliability, efficiency & compliance demanded in today's competitive marketplace.

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# **Industrial and Marine Hydraulics**



CATEGORY Engineering

Industrial & Marine Hydraulics is a leading hydraulic engineering company headquartered in the UK and operating internationally. Over the past 35 years, the company has established a global client base in manufacture and service across a diverse range of hydraulic applications, requiring high-level performance and custom-engineered solutions. We enable our clients to minimise downtime through our considerable expertise, problem solving and uncompromising reliability, efficiency, safety and technical ability. IMH is your partner of choice for world-class hydraulic systems engineering in the Marine, Oil & Gas, Power Generation, Automotive and Industrial

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# Industrial Decommissioning Group (Indecom)



CATEGORY Engineering

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# Industrial Technology Systems (ITS)



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ITS, a specialist systems integrator, offers a range of solutions to enhance the performance of companies operating in manufacturing and processing industries. ITS' automation systems and services are designed to improve quality, production efficiency, data integrity, safety, control, data visibility, traceability and regulatory compliance. ITS specialises in the design and implementation of the following solutions and services: Management Information Systems, Process Control Systems, Project Management and Engineering Services, Regulatory Compliance Services and Vision Systems. ITS' service portfolio includes everything from FEED studies, EC&I design,

technical consultancy and regulatory

project delivery.

compliance training through to full turnkey

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# **Industrial Thinking**



CATEGORY IT & Telecoms

Industrial Thinking was formed in 2007 and the company quickly built on the already strong reputation our individual team members had earned over many years. This bringing together of complementary skills and seasoned expertise proved to be a potent combination and we found ourselves in a melting pot of innovative ideas and possibilities. This exciting time has given the company the inspiration, enthusiasm and passion to consistently achieve first class results. Skill, knowledge and experience are vital tools when facing a challenge but they need to be augmented with vitality....

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# INDUSTRO Solutions



CATEGORY Engineering INDUSTRO Solutions is an innovative dynamic and forward-thinking engineering site services business based in Teesside with a national coverage. Our specialist engineering expertise enables us to provide a safe and bespoke service to our customers, offering turnkey solutions from conceptual design through to manufacturing and installation, project management, supply of labour, asset inspection with our qualified inspectors, drone gerial inspections and 3D mapping. We have successfully delivered projects to the following industries; Petrochemical, Process,

Oil & Gas, Road & Rail Infrastructure and

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# **INEOS Nitriles UK**



CATEGORY Petrochemicals INEOS is one of the world's leading chemicals companies; a global manufacturer of petrochemicals, specialty chemicals and oil products. Comprising 34 businesses with a production network spanning 181 manufacturing facilities in 22 countries producing more than 60 million tonnes of petrochemicals. INEOS employs 18,500 people. INEOS Nitriles is the world's largest producer of Acrylonitrile and Acetonitrile and the world's leading supplier of nitrilebased chemicals, INEOS Nitriles has four global manufacturing sites, including at Seal Sands on Tees Valley with a combined annual capacity of 1.7 million tonnes of nitrile products.

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insightful and credible solutions to the real

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developing innovative and sustainable

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approaches focussed on the need to

the current speed of organisational change

company with the capacity to provide fresh,

challenges faced by businesses, their leaders

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# Institute of Measurement & Control



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### control and related industries. In keeping with this, individual members are welcome to apply for membership of the Institute and subsequently gain professional qualifications of international standing. Companies are invited to join the Institute's Companion

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# **Intasite**

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**Business Support** 



**CATEGORY** Facilities & Site Management Services

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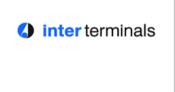
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# Inter Terminals



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# **Intimation Creative**



communications agency with studios in Dunbar and Newcastle, our objective is to provide you with intelligent creative ideas with a marketing strategy which will maximise your budget. Our business focuses on the following areas, brand strategy, advertising, packaging, public relations, design and digital services. Working with businesses from the manufacturing, process, engineering, technology and energy sectors, from start ups to established multinationals, we have an established track record working with companies like yours to realise your brand vision and make sure your marketing budget is delivering the maximum return on

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# **INVISTA Textiles (UK)**

Marketing, PR, Events, Design & Printing



locations across North America, South America, Europe, and the Asia-Pacific region. INVISTA's process technology licensing business, INVISTA Performance Technologies, and the R&D and Biotechnology capabilities of the INVISTA Intermediates business are based in the Wilton Centre, together with commercial and IT resources that support INVISTA's businesses.

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# **IPS Flow Systems**

CATEGORY Chemical



**CATEGORY** Polymer & Rubber For over 25 Years, IPS Flow Systems have been the U.K.'s leading supplier of industrial plastic piping systems. Our range includes PVC-U, PVC-C, ABS, Polypropylene, Polyethylene, PVDF and ECTFE used in a wide variety of applications in sizes from 6mm to 1200mm. As well as an extensive range of products we also offer full technical support and certified training programs for installers. Full details can be found on our website ipsflowsystems.com

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CATEGORY Engineering Services

# IRIS

IRIS is an organisation dedicated to providing Project & Energy Management, Design Consultancy and Environmental, Health & Safety and Services. We offer Businesses and Academic Institutions a Single Source Solution by providing a broad range of Management and Engineering Services which are tailored to fulfil Client needs. We are committed to fully understanding the current and future requirements of our Clients in order to generate cost effective, innovative solutions.

IT Accessed Ltd. creates custom software

serving engineers, process and general

and service providers. Our systems are

manufacturers, construction companies

completely bespoke, are recommended to

link with other systems in the business or stand

alone. We can also update, link together or

extend existing systems which are no longer

in improved speed and productivity.

operating as efficiently as they were, resulting

run office or shop floor functions, and can

systems, and has for the last 12 years been

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# **IT Accessed**



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# **Jacobs Engineering Group**



CATEGORY Engineering

CATEGORY

IT & Telecoms

Jacobs Engineering Group Inc. is one of the world's largest and most diverse providers of professional technical services. We offer a complete range of services to help our clients maintain a competitive edge in their respective markets. From feasibility studies to operations and maintenance (O&M), we customise our services to meet business and project goals so that clients receive the best, most economical project or programme solution, worldwide. We have over 200 offices in more than 25 countries, with operations in the Americas, UK, Mainland Europe, India, Australia, Africa and Asia, with head quarters in Pasadena, California.

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# **JBA Engineering**



CATEGORY Engineering

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# Jet Aire

CATEGORY



Facilities & Site Management Services

Specialist contractor who primarily work in site drainage, providing cleansing, surveying and repair services, either traditional excavation and relay or No-Dia. Jet Aire Services are also licensed to apply Ultracoat, the most chemical resistant epoxy resin coating, for lining chambers, bunds and manholes. In addition, we can provide footway and carriageway surfacing, block/flag paving & kerbs, ground maintenance, fencing, walls and structures

John Morfield Ltd the leading Independent

filter supplier in the UK have been a major

and Pharmaceutical industries since 1962.

Our services include stocking and supply of

consumable filter products and associated

equipment. The company operates single

locally and nationally. In addition, we offer

filter manufacturers, and our reputation for

innovation and quality is unsurpassed. Our

goal is to exceed customers expectations.

source supply agreements with some

of the UK leading manufacturers both

a consultancy service for new filtration

systems, in partnership with the leading

supplier to the Chemical Petrochemical

A unique SME sized EPC contractor focused

Engineering project work with supporting

capability. Just the right blend of skills for

consultancy services ensure our solutions

offering significant cost savings over the life cycle of the asset. This eases operational

and maintenance burden at a time when

resources are becoming increasingly scarce.

A team that's easy to engage, takes the time

to listen and help define a project when you

on Electrical, Control and Instrument

Mechanical and Process Engineering

EC&I lead or biased turnkey work. Our

have inherent regulatory compliance,

may not have the time.

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# John Morfield



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# **Johnson Matthey Catalysts**



CATEGORY

Fine & Speciality

science that enables a cleaner and healthier world. With over 200 years of sustained commitment to innovation and technological breakthroughs, we improve the function, performance and safety of our customers' products. Our science has a global impact in areas such as low emission transport, pharmaceuticals, chemical processing and making the most efficient use of the planet's natural resources. Today more than 13,000 Johnson Matthey professionals collaborate with our network of customers and partners to make a real difference to the world around

Johnson Matthey is a global leader in

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### **Johnson Procurement Solutions**



We believe all businesses should be able to access the strategic and operational benefits which are achieved from a Best-in-Class procurement approach to supply chain management. At JPS we specialise in tailoring our services to meet the demands of your business in the most effective and dynamic ways possible. By working with us your business will immediately realise the positive benefits from this strategic change.

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# **JULABO UK**

CATEGORY

**Business Support** 



CATEGORY **Engineering Equipment** 

German manufacturer of fluid based temperature control equipment. JULABO's comprehensive offering of circulators, chillers, oil and water baths and immersion coolers for temperature control from -95°C to

+400°C can be used in most laboratories. Our units can have an accuracy within 0.01°C. JULABO circulators and chillers are used for heating/cooling or temperature control of many applications e.g. Reaction Vessels, Chemical Synthesis Stations, Reaction Blocks,

JULABO are a market-leading, high-quality,

and cooling of Rotary Evaporators and other condensers. JULABO are both ISO9001 and ISO14001 certified.

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# **Jumping Rivers**



CATEGORY IT & Telecom Jumping Rivers are passionate about data. Many business forget that data is a precious, often untapped, commodity. If you want to predict future growth, detect fraud, or optimise your marketing campaign, then use your data. We work with small start-ups, world class Universities and large multinational companies. Our consultants have an excellent technical background and are using the most up to date techniques. Their experience spans across a range of sectors. We provide both training and consultancy in data analytics.

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# JWF Instrumentation



CATEGORY **Engineering Equipment**  JWF Instrumentation are engineering specialists in measurement and instrumentation. JWF Instrumentation was formed in 2007 and operates in the North of England market throughout Tees Valley Tyneside and Cumbria. Our globally-sourced product portfolio and impartial advice means you'll always get the best instrument for your application. And as we're ABB's appointed channel partner in the North of England, only we offer approved technical sales and support for ABB products. Our key sectors include Oil and Gas, Food and

Beverage, Chemicals, Pharmaceuticals,

Paper, Energy and OEM.

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# K Home International



CATEGORY Engineering K Home International provides comprehensive world class engineering design solutions from concept through to beneficial operation for developers and operators of process and infrastructure projects. The integration of current Health Safety & Environmental legislation into all project design undertaken is fundamental to our success. KHI is a privately owned company established in 1973, providing services to the chemical, petrochemical, metal & minerals, oil & gas, energy & nuclear and infrastructure industry sectors.

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CATEGORY

Engineering

# **Kanon Liquid Handling**



CATEGORY **Engineering Equipment** 

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# Kawasaki Heavy Industries (UK)



Kawasaki Heavy Industries (UK), Ltd (KHIUK) is a representative office of Kawasaki Heavy Industries, Ltd (KHI) in Japan, which was established 120 years ago and listed in Tokyo. Kawasaki is a diversified industrial company including shipbuilding, airplanes, rolling stocks, industrial robots, jet engines, industrial gas turbines, hydraulic equipment, marine engines, plants and a motorcycle as an exceptional B2C business. KHIUK belongs to HQ of KHI and is a bridgehead for KHI's business development in the UK as well as Furope.

Kawasaki Robotics (UK) Ltd is the UK robotics

division of Kawasaki Heavy Industries Japan.

the sales and customer support operations,

with areas for customer demonstrations,

training, robot test and integration and a

large area for stock machines. Over 2,300

of industries and applications throughout

the UK. Operating through a network of

machines are now operating in a wide range

system partners, automation integrators and

also supplying direct to end users, Kawasaki

Robotics (UK) Ltd offers experience in the widest range of industry sectors.

Based in Warrington the facility centralises all

Kanon Liquid Handling Ltd design and

manufacture Drum, IBC and Container

We offer bespoke solutions including the

supply of additional equipment. As a sister

we act as Kanon representative for the LIK

Road and Rail Tanker Loading/ Unloading

and Safe Access equipment. In addition we

are Main Distributors for Mann Tek Couplings,

also offering a full Service and Repair facility.

company of Kanon Loading Equipment B.V.,

and Ireland, offering the full range of Marine,

Filling Systems, ranging from fully automated

Robotic Systems to simple Manual Machines.

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# Kawasaki Robotics (UK)



CATEGORY **Engineering Equipment** 

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# **KDC Contractors**



CATEGORY Facilities & Site Management Services

### MAIN CONTACT

KDC is a company specialising in delivering

including strategy development, demolition,

hazard characterisation, decontamination

(asbestos, radiological and chemo-toxic),

remediation Our focus is exemplary Safety

people and other stakeholders. KDC serves

the process, chemical, nuclear, energy and

natural resources, pharmaceutical, utility and

Health and Environmental (SHE) performance

de-planting, asset disposal and land

to protect our own and our customers

KDM Partnership Limited is a Resource

Solutions business born out of 25 years

Gas, Power and Infrastructure sectors

representing stakeholders and principle

business is uniquely positioned to provide

ensures our services are tailored to suit the

discuss your resourcing challenges please contact the principle directly.

Kelly Services is a global workforce solutions

provider. Our core competency is identifying

how our access and ability to manage talent

in its different forms can bring value to our

has a range of staffing solutions to support

organisational goals by supplying the right

your business and help you achieve your

people in to your teams at the right time, every time. With a network of branches

across the country we can provide UK wide coverage with specialisms across

Engineering, Scientific and all business

support functions.

clients. From the simple to the complex Kelly

contractors. Challenging tradition, the

project delivery personnel whilst our

experience and flexibility in approach

needs of our clients. Should you wish to

experience in the Petrochemical, Oil and

industrial markets.

safe end of asset life and land remediation

solutions for our customers. We provide

competitive decommissioning services

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# **KDM Partnership**



CATEGORY Recruitment & HR

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# **Kelly Services**



CATEGORY Recruitment & HR

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# **Keltbray Environmental Solutions**



CATEGORY Health, Safety & Environmental Keltbray provides specialist engineering, construction, demolition, decommissioning, remediation and environmental services for heavy industrial and petrochemical decommissioning. We understand the special requirements when it comes to working within safety critical industries and are experts on working within constrained environments, delivering a range of services including dismantling, deconstruction, decontamination, site clearance, asbestos removal, de-planting, salvage, and demolition works (including explosive techniques). Our commitment to training and maintaining a directly employed labour force enables us to provide qualified and experienced people for all aspects of any work undertaken.

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# **Kemira Chemicals (UK)**



Kemira is a global chemicals company serving customers in water-intensive industries. In 2016, Kemira had annual revenue of around EUR 2.4 billion and 4,800 employees. Kemira shares are listed on the Nasdaa Helsinki Ltd. We focus on pulp & paper, oil & aas, mining and water treatment to best improve our customers' water, energy and raw material efficiency. We drive to achieve above-the-market growth through our competent people, highperforming organisation, product and service innovations, and a strengthened presence in selected emerging markets.

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# **KGM Refrigeration**

CATEGORY

Chemicals



CATEGORY **Engineering Equipment**  KGM Refrigeration are a company specialising in the design, supply and maintenance of industrial refrigeration equipment for the process industries. We deal with equipment in the range +10°C down to -90°C with capacities from 50kW to 5,000kW,

Propane.

operating on either synthetic refrigerants **CONTACT DETAILS** or natural refrigerants such as Ammonia or

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### Klüber Lubrication Great Britain



In the chemical industry the demand for speciality lubricants continues to increase due to the higher demands on machinery and processes and the extreme conditions involved. Our special lubricants resist high temperatures and corrosive or solvent media which helps to support plant availability/ uptime, process reliability, reduction in maintenance time and longer re-lubrication intervals Through direct consultation and world-wide experience we help our customers select the right lubricant for the right application to extend the service life of the lubricated components.

KW Designed Solutions is a leading supplier

of bespoke Special Purpose Pressure Vessels,

Pressure Testing Equipment and associated

Pressure Control Systems, Cutting edge design

and superior manufacturing capabilities are

combined with a total commitment to the

continuous improvement of our products

the most innovative, high quality and cost

effective solutions that are safe and reliable.

support industry and research facilities in the

Labtex supplies leading laboratory products

and scale up equipment for Process R & D

systems, DIEHM glass reaction systems to

100 litres, PREMEX and AMAR high pressure

autoclaves, LABTEX & POPE process vessels,

POPE wiped film or short path evaporators

and distillation systems, Nutsche filter dryers,

BOLA labware in PTFE and other technical

desiccators. We also work with LLG Germany, the 3rd largest lab supplies distributor in Europe and have a catalogue of 20,000 items

plastics. Vacuubrand vacuum pumps.

materials to BS EN 14470-1 and SICCO

from over 200 respected brands.

ASECOS storage solutions for hazardous

including HUBER liquid temperature control

Subsea Engineering, Oil and Gas, Nuclear,

Pharmaceutical, Scientific and Material

Research sectors.

and services. This ensures we produce

Established in 2004, KWDS continues to

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### CATEGORY

Chemicals

### **KW Designed Solutions**



CATEGORY **Engineering Equipment** 

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### Labtex



**CATEGORY** Laboratory Equipment

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## Lanes Group plc



CATEGORY

Facilities & Site Management Services

Lanes Group provides 24/7 365 days, responses to all your drainage and wastewater emergencies. Removing blockages, repairing, rehabilitating and renewing drains and sewers nationwide. There is so much more to Lanes. Offering consultancy advice on all drainage relating problems, bulk waste management services throughout the UK, in addition to the many framework contracts in specialist industry sectors such as rail, utilities and insurance that have been secured over the years. The framework contracts have developed into other areas especially in the rail sector where the framework contracts covers multi discipline trades, in the insurance field, clean

water also forms part of the offering.

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## Lauda Technology



CATEGORY Engineering

LAUDA Technology is the UK & Ireland Subsidiary of parent company LAUDA DR. R. WOBSER GMBH & CO. KG. LAUDA is the global leader in the manufacture of innovative constant temperature equipment for science, application technology and production, with a unique product portfolio ranging from compact laboratory thermostats through industrial circulation chillers to customised heating and cooling systems. The capability to offer over 400 kilowatts of cooling power and a temperature range of -150 to 550°C with accuracies to an impressive 5 thousandth °C, LAUDA guarantees optimised temperature throughout the entire value chain for its 10,000 plus customers worldwide.

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## **Lifestyle Architecture**



CATEGORY Engineering In Today's inspirational world of gurus and motivational speakers, Lifestyle Architecture is a refreshing blend of common sense ideas, concepts and principles in essence delivering PRACTICAL LEADERSHIP. It is designed for You, Your Team and Your Organisation and our promise is to enhance Performance, Create time and increase wealth. Our USP is the creation of an experimental framework during a series of one-to-one engagements and supported by CDs, DVDs and action books.

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## **Lisam Systems**



**CATEGORY** Health, Safety & Environmental

Founded in 1999, Lisam Systems is a global provider of Environmental, Health and Safety (EH&S) compliance management software solutions and services, operating from offices worldwide. By combining an easy-to-use, flexible technology built on the Microsoft .NET platform, with the latest regulatory content, Lisam brings innovative, affordable and timely solutions to solve EH&S challenges faced by manufacturers, distributors and users of chemical products. ExESS our premium solution for all your SDS authoring integrates global chemical regulatory content and a powerful GHS rules engine to quickly and accurately generate CLP/GHS compliant SDS in nearly 50 languages and for

all major commercial markets.

Lokring Northern (UK) are the exclusive

distributor of Lokring weld equivalent pipe

work solutions. The technology is rapid to

install, tamper proof and allows a pipe or

tube connection to the standard of a butt

weld without the need for hot work. We have

Petrochemical, Chemical & Pharmaceutical

markets and as the Local distributor we stock

technically support, offer installation tooling

to hire or purchase and provide installation training courses on our technology.

significant experience in Oil & Gas Refining,

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## **Lockout Tagout Safety**



CATEGORY Health, Safety & Environmental

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4D Bowes Road, Middlesbrough, Tees Valley,

## **Lokring Northern (UK)**



**CATEGORY** 

**Engineering Equipment** 

Lokring Northern (UK) are the exclusive distributor of Lokring weld equivalent pipe work solutions. The technology is rapid to install, tamper proof and allows a pipe or tube connection to the standard of a butt weld without the need for hot work. We have significant experience in Oil & Gas Refining, Petrochemical, Chemical & Pharmaceutical markets and as the Local distributor we stock, technically support, offer installation tooling to hire or purchase and provide installation training courses on our technology.

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### Lotte Chemical UK

CATEGORY

CATEGORY

Polymer & Rubber

Polymer & Rubber



Lotte Chemical UK Ltd (LCUK) was formed in early 2010 when Lotte Chemical Corporation purchased the business at Wilton, formerly belonging to Artenius UK Ltd / La Seda de Barcelona, Dupont & ICI. LCUK is the only UK manufacturer of Polyethylene Terephthalate resin (PET) for use in bottles, containers, films, trays and other forms of packaging. In 2011 it announced the expansion of its Wilton asset base with addition of a new 200kt pa PET plant, which was commissioned and operational in 2014.

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Davies Offices, Wilton, Redcar, Tees Valley, TS10 4X7

## Lucite International Speciality Polymers & Resins



LISPR manufactures a wide range of predominantly acrylic resins for the global speciality acrylic resins market. End uses include dental prosthesis, bone cement. coatings, inks, interleavant and ceramic moulds. We are highly skilled at designing and manufacturing resins to our customers specific requirements. We are certified to ISO13485; ISO9001 and ISO14001.

#### MAIN CONTACT

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### Lucite International UK



CATEGORY Polymer & Rubber

Lucite International is the Global Leader in Acrylic based products with a strong focus on innovation and development. Committed to Safety and Health in the workplace and dedicated to preserving the environment and helping the local community. The Cassel Site at Billingham is the largest within the company and manufactures both the key raw materials for further processing within the company, and finished product for sale to external market customers. Main products manufactured on site are Methyl Methacrylate (MMA), Methacrylic Acid (MAA) & n-Butyl Methacrylate (nBMA).

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## Lynas Engineers



CATEGORY Engineering

Lynas Engineers provide a modern, personal approach to engineering design. Engineering excellence is at the heart of our service, delivered with the latest technology and design thinking. We provide the following services: Civil Engineering Design; Infrastructure Design; Highways Engineering; Drainage Engineering and 3D Design & BIM. Our service includes feasibility and scheme development, technical approvals, planning submissions, detailed design, procurement and construction supervision and management. We have successfully delivered projects including major motorway and trunk road improvements; transport interchange facilities, road maintenance schemes: footway and cycleway schemes: road safety improvements; housing and industrial

Marketwise Strategies de-risks new product

development, market entry and business

decade, our in-depth studies have been

helping clients to: Develop new products,

Enter new markets, Commercialise IP, Secure

investment decisions. For more than a

investment, Develop growth strategies,

and Get closer to their customers and

other stakeholders. Our reputation is built

team. Marketwise Strategies works with

global corporations).

universities, innovation organisations, and businesses of all sizes (from new starts to

Marks & Clerk is one of the world's leading

IP firms. We have extensive experience in

advising our clients and the wider business

community on how best to obtain, protect,

Manchester office celebrated its 120th year

in 2013 and has grown considerably over the

patent and trade mark attorneys in the North

years. It is now one of the largest teams of

West region, servicing regions across the

North of England.

exploit and defend their IP rights. Our

upon robust, detailed market intelligence,

delivered by a highly qualified, client-focused

developments.

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CATEGORY **Business Support** 

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### Marks and Clerk



CATEGORY Professional Services

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1 New York Street, Manchester, M1 4HD

### Marlow Foods - Quorn



CATEGORY

CATEGORY

**Business Support** 

Food

Quorn is a growing brand dedicated to helping you make and create an inspiring range of irresistibly tasty meals. Built on our belief in Sustainable Nutrition™ and a vision to make food that's better for us and better for the planet. Based in Stokesley, we also have manufacturina facilities in Billinaham and Thetford

#### MAIN CONTACT

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Factory General Manager, Billingham Site steven.finn@quornfoods.com +44 (0) 1642 710 803

#### **CONTACT DETAILS**



 $\checkmark$ 

Belasis Site, Nelson Avenue, Billingham, North

Yorkshire, TS23 4HA

**Materials Processing Institute** 



The Materials Processina Institute is a national research centre for the global materials industries. Researchers and engineers at the Institute pride themselves on finding simple. robust solutions to complex engineering problems, using state of the art facilities. We develop new technologies, process improvements and pilot facilities, to reduce cost, environmental impact and improve product quality. Expertise is strong in heat transfer, fluid dynamics and process design, supported by modelling and instrumentation The centre delivers technology worldwide. Leveraged funding opportunities are exploited through these networks.

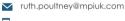
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+44 (0) 1642 382 000

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## **Maxim Facilities Management**



Maxim Facilities Management is a multi award-winning facilities management company based in the North East. Specialising in delivering outstanding soft facilities services, Maxim serves some of the UK's most prestigious public and private sector organisations. Through our customer-focused approach and heavy investment in the latest technology, we are able to consistently deliver an exceptional customer experience Maxim were awarded the Services Award at the North East Business Awards to recognise our dedication to excellent customer service.

### MAIN CONTACT

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Facilities & Site Management Services

## **Media & Crisis Management**



CATEGORY Marketing, PR, Events, Design & Printing

## MAIN CONTACT

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Response House, 5C Alkmaar Way, Norwich

## Megator



Megator was founded by F. W. McCombie in London, 1946. The Company was formed to Develop and Market the "Sliding-Shoe Positive Displacement Pump" which the founder had designed. In 1960, due to the steady growth of the business, it was decided that the manufacture of the Megator Pump should be in-house and so a factory and office complex was constructed in Sunderland where production commenced in 1962. Since its inception, the company has developed its product range, resulting in the production marketing of several product lines.

Now in our 21th year, we provide a range of robust, sustainable and flexible 24/7/365

emergency response services to clients

instantly accessible services focus on incident

management; assistance for personnel and

the provision of information to relatives, the

Regional Response Teams spanning the UK

exercise and consultancy capability which

builds on our unique real-world emergency

bespoke packages for clients.

response experience to develop and deliver

and one on the continent. We offer a training,

media and other stakeholders. We have

a National Response network with eight

across a wide range of sectors. These

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Hendon, Sunderland, Tyne & Wear, SR21 2NQ

### Metrohm UK

**Engineering Equipment** 

**CATEGORY** 



CATEGORY Laboratory Equipment

Metrohm is one of the world's most trusted manufacturers of high-precision instruments for chemical analysis. The Metrohm Group also includes Metrohm Process Analytics and Metrohm Autolab, manufacturers of Process Analysers and instruments for electrochemical research, respectively. Metrohm UK a subsidiary of Metrohm AG operates from Runcorn, Cheshire and provides to the majority of the north east manufacturers, analytical services and utilities providers.

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## **Micropore Technologies**



CATEGORY **Engineering Equipment** 

CATEGORY

Engineering Services

Experts in specialist particle and emulsion manufacture, using the newly emerged technique of membrane emulsification and our unique membranes and emulsification technologies. We help our customers to innovate and differentiate their products using mono sized and mono dispersed emulsions, particles and encapsulated particles. Established over ten years ago as a high-technology spin-out of Loughborough University, Micropore has grown to be an experienced expert in specialist particles and emulsion manufacturing working with a wide portfolio of exciting and demanding clients. We maintain our academic rigour and cutting-edge approach and have developed to be a unique and powerful partner to clients.

#### MAIN CONTACT

James Robson MBE Chairman james@welbury.net

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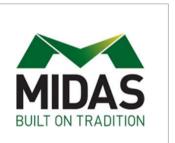
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T366, Wilton Centre, Redcar, Tees Valley, TS10

## **Midas Cladding Services**



So what makes us different from other cladding firms? At Midas, the customer always comes first. We do whatever it takes to give you what you need. Our innovative approach is backed by the expertise and professionalism of our people. In 2014 Midas received an Investors in People Gold Award in recognition for our first class culture, team ethic and dedication to staff development. With a recruitment policy that drives everything we do, Midas has the right people to carry out an outstanding job.

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## Middlesbrough Football Club



CATEGORY Marketing, PR, Events, Design & Printing Middlesbrough Football Club is a bespoke conference, training, meeting and exhibition venue based in Teesside offering high quality conference facilities as well as training and meeting rooms with the latest audio-visual systems. Our facilities are supported by comprehensive event management and technical expertise. Our conference facilities include a customised space which can accommodate up to 220 people theatrestyle or 200 people banquet-style. The room also incorporates audio-visual systems, an audience response system, Wi-Fi Internet access, air conditioning and technical

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### Middlesbrough College



CATEGORY Education & Training

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## Mike Walker Photography



**CATEGORY** Marketing, PR, Events, Design & Printing

## MAIN CONTACT

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## **MMI Engineering**



CATEGORY Engineering MMI Engineering (MMI) are a leading consulting and engineering firm delivering innovative, value added solutions across the full project lifecycle for energy and infrastructure clients across the globe. We provide professional, innovative and analytical technical consulting services specialising in the management of manmade and natural hazards. Our blend of expertise is drawn from a pool of professionals that stem from a wide range of scientific. engineering and operational backgrounds.

Middlesbrough College is located at

the heart of the Tees Valley region with

outstanding facilities including a new,

state of the art, industry training centre

Programmes are designed specifically

industry.

around client requirements and include

Process Plant Operations, Instrumentation,

Electrical, Mechanical, Auto CAD, Welding,

Chemistry, PLCs. We also offer a wide range of

management training programmes that can

be readily configured and contextualised for

Mike Walker Photography is a Commercial

Photography business based on Teesside

Industrial, Architecture (Exterior, Interior),

Construction & Landscape photography, timelapse and video. Provider of high quality

photographic products including wall art.

Mike is a qualified Professional Photographer gaining Licentiate of the British Institute of

Professional Photographers. With an extensive Project Engineering / Design background, on predominantly Top Tier COMAH

Petrochemical, Construction and Industrial sites, he understands complex projects,

construction site workings, their hazards and

safety requirements.

offering support to the Northeast of

England and the UK. Specialising in

opening in September 2015. The College

offers a comprehensive range of technical

vocational training programmes at home

and overseas (from Level 2 to Degree level).

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## **MP Storage & Blending**



CATEGORY Facilities & Site Management Services

MP Storage & Blending Ltd have built a first class reputation for toll blending, contract packing and bulk liquid storage, by providing customers with flexible solutions to a wide range of outsourcing needs. With a UK and International customer base across a wide range of the Chemical and Process industries we can provide short term contingency support through to fully integrated supply chain management. Operating from our Low Tier COMAH facility in Middlesbrough, with an on site Laboratory and material warehousing we have everything in place for existing or future outstanding needs

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## **MSD**



exporter.

Solid dose pharmaceutical manufacturer, UK

subsidiary of US parent company. Significant

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## **MSS People**

CATEGORY

**Pharmaceuticals** 



CATEGORY Recruitment & HR delivering innovative recruitment solutions for over 50 years to the North of England and beyond. Working with integrity and being honest about what we do well gets the right

people into the right jobs, at the right time. Team work is key; together with customers and candidates we achieve the best fit for all. Respect costs nothing, yet it's a rare commodity in our field; at MSS People respect is abundant, and it's provided free of charge!

MSS People is a local family business

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## Murgitroyd

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Health, Safety & Environmental

Professional Services



We started this business with the conviction that there was a better way to practice Intellectual Property (IP) law. 40 years later, Murgitroyd is one of the largest IP firms in Europe and a global provider of IP services. We understand innovators, inventors and entrepreneurs, because our firm has the principles of innovation, invention and entrepreneurship at its heart. What makes us different: World-leading legal and technical expertise in Patens and Trade Marks, Designs and Copyright; The widest direct European cover of any IP firm; Global IP buying power for best rates and quality.

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CATEGORY **Business Support** 

# **NECC - North East England Chamber of Commerce**

In a world where making the right connections is crucial for success, we are the champion that fights for North East businesses to have the conversations that really matter. We are for those who believe in the value of sharing knowledge, as we work to combat the risk of missed opportunities. We are committed to democracy, diversity, participation and experience. We provide invaluable intelligence and a platform for meaningful interactions. We promise to enable people to see more possibilities for their business and have the confidence and capability to realise them

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## **National Safety Passport**



The EMSS approved National Safety Passport training has been developed by a highly experienced and knowledgeable team; the content being checked by many highly qualified HSE professionals from various industry sectors with decades of experience. The course is updated regularly based on industry best practice and changes to legislation so you can be assured your workers hold the most up to date information to keep them safe and free from harm.

Navigator Terminals UK Limited is represented

by four strategically located terminals making

it the UK's largest independent tank terminal

handling of chemical, oil, liquid and gaseous

operator, specialising in the storage and

products. Whilst the Seal Sands terminal is situated at the mouth of the River Tees and

is fully integrated within the UK's largest

chemical cluster our North Tees terminal

has the region's only deep water jetty with

modern rail distribution facilities. Both sites operate to top tier COMAH regulations

conforming to the highest safety and quality

#### MAIN CONTACT

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## **NEPIC**

CATEGORY **Business Support** 



NEPIC is an award winning membership cluster organisation working with the chemical-using industries in the North Fast of England. We cover a broad sweep of chemistry-focused industries including petrochemicals, polymers &materials, fine & speciality chemicals, pharmaceuticals, biotechnology and renewables. Together with our member companies, we work to build upon the already powerful industrial base located here and make this region one of the most competitive and successful chemical-processing locations in Europe.

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## **Navigator Terminals Seal Sands**



CATEGORY

Logistics & Distribution

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### **New Results**



CATEGORY **Business Support**  Sales training, coaching and consultancy.

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## **Newcastle University**



Chemistry at Newcastle provides a broad range of expertise from the design and synthesis of molecules and materials through to process development and optimisation, providing an ideal platform for interdisciplinary innovation. Our five research groups include: medicinal chemistry and chemical biology; nanoscience and materials; photonic materials; structure and dynamics: synthesis, reactivity and catalysis. Chemistry at Newcastle provides Bachelor and Masters degrees in Chemistry, and postgraduate and postdoctoral research opportunities over a wide range of chemical

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### CATEGORY

Education & Training

## **NewChem Technologies**



NewChem Technologies offers Contract R&D to life science markets. The company's core technology is organic chemistry which is coupled with extensive process know-how and backed by a comprehensive range of analytical support services. NewChem Technologies offers Contract R&D Services for the development of new products and processes and for problem solving. Specific market sectors are: Pharma Products; Fine Chemicals; Diagnostics.

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**CATEGORY** 

Research, Development & Analytical

## **NNFCC - The Bioeconomy Consultants**



CATEGORY **Business Support** 

NNFCC is a leading international consultancy with expertise on the conversion of biomass to bioenergy, biofuels and biobased products. Our award-winning consultancy helps industry solve complex business challenges and provides vital evidence for policy makers.

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## **NOF Energy**



CATEGORY **Business Support** 

CATEGORY Education & Training Helping Members Win Business Our strategy is based upon a highly proactive approach of identifying new business opportunities both in the UK and internationally within the sectors we operate. From a traditional upstream oil & gas background, NOF Energy now works across multiple energy sectors. NOF Energy provides a comprehensive range of business development services. These services have heen created with members in mind to help them meet new contacts, forums to network on a regular basis, receive updates on the sector, raise their profile and to hear about forthcoming projects and business opportunities.

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1st Floor, Thames House, Mandale Business Park, Belmont Industrial Estate, Durham, County Durham, DH1 1TH

## Nordic Products and Services



we also offer a broad range of engineering related qualifications. We can also access funding to support businesses in recruiting new employees with the relevant skills (training prior to employment) as well as upskilling existing employees to provide workforce flexibility and skills to support future contracts. Nordic was a finalist in the 2018 Welding World Awards for best training provider.

Nordic is primarily an engineering training

in Welding training, testing and procedures

and testing centre. Although specialising

and service to set your watch to. We are

coatings specialists, whether it be for trains,

planes or automobiles, architectural, industry

decorative or wood finishing. We are great at

supplying what you want, when you want it

and at a price....well that we're both happy

#### MAIN CONTACT

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Hill Street East, Church Road, Stockton-on-Tees, Tees Valley, TS18 2HN

### **North East Factors**



CATEGORY **Engineering Services** 

#### Here at North Fast Factors, we like to keep MAIN CONTACT it simple, easy, friendly and personal. We're Jonathan Moore about good products at competitive prices

Director jonathan@nef.uk.com +44 (0) 191 262 2424

### **CONTACT DETAILS**



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## North England Laboratory Supplies (NELS)



From a beaker to a complete laboratory -North England Laboratory Supplies provide the chemistry. North England Laboratory Supplies Ltd is located in Newton Aycliffe and are able to supply Laboratory goods and services at competitive rates. Through the close links to international distributors they are able to provide the best choice of equipment chemicals and consumables to laboratory and scientific industries North England Laboratory Supplies has ISO9001:2008 and ISO14001:2004 accreditations.

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## Northern Balance

CATEGORY

**CATEGORY** 

**Engineering Equipment** 

Laboratory Equipment



Valley Trading Estate and we cover the North of England. We are truly independent experts offering unbiased information on balances and scales through to Check-Weighers and X-ray Machines. Once in touch with us, we can advise you, free of charge, on the effective solution to your weighing problem.

Northern Balance are the leading

independent UKAS accredited balance and

scales specialists in the north of the United

service, calibration and repair. Our offices

and workshops are situated on the Team

Kinadom providing core solutions of supply.

Northumbria University is the largest University

in North East England with a significant global

employer-focused education and customised

training addressing the needs of industry and

government organisations. Our experience

of working with chemical, petrochemical,

and other manufacturing industries (over 1000 clients worldwide) has resulted in the

University's export of research, education and expert technical and policy advice accounting for 20% of its annual turnover.

speciality chemical, pharmaceutical, polymer, biotechnology, automotive, food

presence. We provide innovative research

and knowledge exchange, as well as

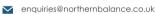
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## **Northumbria University**

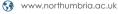


**CATEGORY** Education & Training

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Ellison Building, Ellison Place, Newcastle-Upon-Tyne, Tyne & Wear, NE1 8ST

### Northumbrian Water



waste water wholesale services to more than 50,000 industrial and commercial customers in the North East of England. Their aim is to deliver value to business customers by offering innovative solutions and expert advice on compliance. It specialises in the strategic management of water and waste solutions and offers a comprehensive range of services to help the chemical and process industry organisations safeguard and improve their water systems. Their sophisticated measurement technologies can help reduce your water bills.

Northumbrian Water provides water and

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## **Nusafe Europe**

CATEGORY

Energy & Utilities



Nusafe is a speciality supplier of PPE and work-wear, providing custom-fit solutions through our unique Workwell process to help clients optimise supply. Servicing complex companies with diverse requirements, we are an industry expert in consolidation through partnership. Nusafe is committed to ensuring clients receive benefits of continuous improvement through the duration of service, and we work closely to ensure supply is optimised, providing compliance, control, efficiency, and cost-savings benefits.

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Advance House, Chilton Industrial Estate, Chilton, Ferryhill, County Durham, DL17 0SD

## Oakes Energy Services



by Jason Oakes and Derek Dowson, we are a family-based company that offers a personal touch in all aspects of our work. We offer highly competitive prices and innovative solutions that provide real value for money.

Oakes Energy Services Limited was

established in 2007 with the aim of offering

customers an alternative, more sustainable

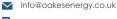
approach to their energy needs. Founded

### MAIN CONTACT

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### **OCR International**



### CATEGORY **Business Support**

OCR is the leading provider of globe trade management software and solutions for a diverse range of market verticals, including Pharmaceutical, Chemical and Process industries. With a global presence that spans the US, UK, Europe, Middle East and Asia Pacific, OCR specialises in export / import software, licence management and compliance solutions, OCR's range of solutions include: Watch Lists Screening / Denied Party Screening; License Management; Global License Screening (License Determination); Visitor Management now with integrated biometrics; Security & ID Management; Automated Export Documentation and Automated Customs submission/reporting.

#### MAIN CONTACT

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#### **CONTACT DETAILS**

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 $\checkmark$ 

+44 (0) 7470 945 525

79 College Road, Howard Road, Harrow,

## **Onyx Health**



Marketing, PR, Events, Design & Printing

innovative and impactful marketina campaians that reach customers, build brands and increase sales. As a group of multi-skilled, creative individuals, we can develop and leverage all types of communications and marketing techniques. We pride ourselves on our responsiveness and we often go that extra mile to ensure we have a positive impact on your reputation

OPUS Mediaas Ltd are a leading installer and

maintenance provider for specialist medical

gas, process and laboratory delivery systems

know our customers and patients require the

highest quality system gases and equipment.

maintenance, we offer solutions to meet the

laboratories and process industries. We pride

quality standards and safety requirements of

ourselves on delivering work to the highest

to the UK's health and process sectors. We

From design and project management to

installation, testing, commissioning and

specific requirements of hospitals, clinics.

Onyx Health is a specialist healthcare and

PR agency. We are passionate in helping

businesses succeed and grow, creating

life science marketing communications and

#### MAIN CONTACT

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## **Opus Medigas**

**CATEGORY** 



CATEGORY

**Engineering Services** 

### MAIN CONTACT

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### CONTACT DETAILS



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### **Oranmore Environmental Services**



CATEGORY

**Engineering Services** 

specialist solutions to the water, construction, manufacturing, chemical, pharmaceutical, food, petrochemical and gas industries. Delivering an extremely high standard of work that offers minimum downtime and disruption to our clients, our team of highly trained individuals are dedicated to providing the best possible service. Services include specialist coatings; structural rehabilitation; infiltration engineering; CCTV surveys; ground stabilisation; high pressure jetting; drain repairs; no dig repairs; tank and vessel cleaning and vacuumation.

Oranmore Environmental Services provide

#### MAIN CONTACT

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+44 (0) 330 111 0007

Woodside Farm, Wakefield Road, Grange Moor, Wakefield, WF4 4DS

## O'Brien Waste Recycling Solutions



CATEGORY Waste Management & Recycling

O'Brien Waste Recycling Solutions is a fastgrowing business operating in a dynamic industry. Through our customer-first approach and investment in innovative technology solutions, we are continually ahead of the curve in the waste management industry. As the North East's largest waste recycler, our goal since our inception in 2006 has been to provide a range of environmentally friendly, multi-stream waste collection and recycling solutions for businesses of all sizes. Our dedication to excellent customer service was recently recognised by winning the 'Service of the Year' Award at the North-East Business Awards for our area.

#### MAIN CONTACT

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### **Patrick Parsons**



CATEGORY **Engineering Services** 

Patrick Parsons are multi-disciplinary consulting engineers also offering complementary services in building consultancy, project management and planning services. We provide consulting services in the following disciplines: Structural Engineering; Civil Engineering; Mechanical & Electrical/Building Services Engineering; Environment & Energy; Geoenvironmental; Planning Support; Infrastructure; Building Consultancy; White Water Course Services; Project Management; Traffic and Transportation Modelling. From our offices in London, Newcastle-Upon-Tyne Birmingham Glasgow, Huddersfield, Manchester, Chester, Guildford, Dubai and Sydney we work with a wide range of clients and industries throughout the UK, Europe and the Middle

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### **PD Ports**

CATEGORY

Logistics & Distribution



PD Ports is an award-winning ports and logistics business based in the North East of England with operations throughout the UK. Located on the North East coast of England, at the heart of the Tees Valley PD Ports owns and operates the port facilities of Teesport and Hartlepool. One of the UK's largest ports by volume, Teesport can handle a variety of bulk and project cargo and has one of the deepest general purpose quays in the UK. Over £1BN has been invested in the last 10 years to underpin growth and development.

There is clear evidence that successful

employee engagement makes staff more

productive, customer-focused and loval.

have decades of combined experience

programmes that drive peak performance.

leadership and management coaching,

Services include engagement programmes,

accreditation packages. Engage 3P and we

will show you how to engage your employees

driving business performance. At 3P we

in developing people engagement strategies, coaching and team development

behavioural assessment and talent

management, Lean training, and

and reap the rewards.

#### MAIN CONTACT

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## Peak Performance Partnership (3P)



CATEGORY **Engineering Equipment** 

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## Pepperl+Fuchs GB



CATEGORY IT & Telecoms and manufacturer of electronic sensors and interface components. For more than 60 years, our continuous innovation, highquality products, and steady growth have made us a reliable partner throughout the world. Our Process Automation Division is a market leader in hazardous area interfacing and protection solutions. As a preferred partner within oil and gas, chemical, pharmaceutical, power, and utilities, we offer comprehensive system solutions. Our product portfolio includes isolated barriers, fieldbus

solutions, remote I/O systems, purge panels, industrial monitors & HMI solutions, explosion-

proof cell phones, and much more.

Pepperl+Fuchs is a world leading developer

### MAIN CONTACT

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## **Perry Process Equipment**



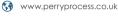
CATEGORY **Engineering Equipment** 

Perry buys and sells high quality used processing plant and equipment worldwide to companies in the chemical, pharmaceutical, nutraceutical, food and beverage industries. The Perry Equipment companies have almost 15,000 items available in stock from manufacturers including: Alfa Laval, APV, De Dietrich, Glatt, Hosokawa, Krauss Maffei, Littleford, LÃ dige. Nauta, Pfaudler, Westfalia and Winkworth, to name just a few. The benefits we offer include: savings of up to 70% on the cost of your process equipment, equipment immediately available from stock, full mechanical and electrical refurbishment, flexible payment terms and equipment disposal options.

#### MAIN CONTACT

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## **Phusion**



and services to transform your complex information into a valuable asset. We do this by providing you with a range of flexible. cost effective software and mobile Apps, secure hosting, consultancy, services and engineering content. Within our 25 year experience, we have worked on some of the world's largest capital projects and operational facilities such as Chevron Gorgon and INPEX Ichthys. Having developed and implemented Information Management (IM) strategies to deliver corporate objectives for these global mega-projects, our software is available to benefit any company of any size.

Phusion provides engineering software

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## **Pipetawse**

CATEGORY

IT & Telecoms



CATEGORY **Engineering Services** 

Accredited to ISO 9001:2008, and BS EN MAIN CONTACT 1090-2. Established in 1981 to provide to Bill Armstrona provide a quality mechanical service to the

and steelwork.

Managing Director pharmaceutical, chemical, petro-chemical, bill.armstrong@pipetawse.com food processing and industrial companies, +44 (0) 191 237 6237 Specialising in fabrication, welding, pressure testing and installation services for pipework,

### **CONTACT DETAILS**



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Fabrication Division, Unit D3, New Hartley Industrial Estate, Double Row, Seaton Delaval, Whitley Bay, Tyne & Wear, NE25 0Q1

## **Plenary Project Solutions**



Plenary Project Solutions Ltd (PPSL) provides specialist services to Onshore Process and Offshore Oil and Gas industries throughout the UK, Europe and World wide. We deliver the personnel, systems and solutions for the expedient performance of systems construction, Project Completions, Commissioning, Setting-to-work and Safety Management. We specialise in the design. construction and commissioning of Heavy Industrial Process plant, FPSO's and Offshore Units and Installations for the Oil and Gas

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## CATEGORY

**Business Support** 

## **PM Group**



company with a 45 year track record in project management, process design, facility design and construction management. We deliver projects on a variety of scales across the UK, where we are leaders in the Pharmaceutical, Food, Medical Technology and Chemical sectors. Our end-to-end offering in the UK allows us to execute across the full project lifecycle for our clients, whether that is performing standalone masterplanning and feasibility phases through to full EPCM & CQ for greenfield

Established in 1989 we are an independent

equipment to the Petrochemical and

Offshore Industries. IFEX is the definitive

method of putting out fires, leaving no

that regular firefighting systems cannot

access. IFEX is currently installed in mines,

collateral, smoke or water damage, all in

under one minute. Tackles all causes of fire;

electrical, mechanical and chemical. With

100% success rate. It is relied upon as the sole solution in extreme and inaccessible locations

tunnels, at facilities with volatile materials, in historical buildings, storage facilities, offshore and on chemical plants around the world.

company. Providing IFEX unrivalled firefighting

PM Group is an international project delivery

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## **PMC Supplies**

CATEGORY

**Engineering Services** 



CATEGORY Health, Safety & Environmental

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## **Pollywood**



Pollywood Ltd are developing a new tubular material with a very high strength to weight ratio, using naturally grown materials. The first application being developed after a request from the electricity distribution industry is a replacement for the creosoted power line pole, since their exemption from the ban on creosote will soon end.

#### MAIN CONTACT

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## **Populus Select**

CATEGORY

Polymer & Rubber



Are your most valuable assets the people you employ? Whether they are in Tees Valley across the UK or elsewhere in the World? At Populus, we have developed a repeatable recruitment process that identifies, attracts and hires candidates who will help you grow your business for the long term locally, nationally or internationally. With Brexit more and more companies are employing in other countries and we are well versed in supporting that growth, ask us for some examples.

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### **Power Roll**

CATEGORY Recruitment & HR

CATEGORY

Energy & Utilities



Power Roll represents the next generation in PV technology, allowing consumers to generate renewable energy at a cost which is comparable to carbon based technologies and significantly less expensive than other current PV technologies. Power Roll will be a truly flexible PV solution with an expected thickness of less than 1mm and will be up to 70 times lighter than current PV products.

Big Solar Limited is developing Power Roll, a

around breaking ultra-lightweight and ultra-

low cost solar photovoltaic ("PV") product.

### MAIN CONTACT

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### **Precision Geomatics**



CATEGORY **Engineering Services** 

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## **Precision Processing Services**



**CATEGORY Engineering Equipment** 

Precision Processing Services Ltd (PPSL) offer a unique service for the refurbishment of process equipment across industry. We specialise in the cleaning and testing of process equipment which allows equipment to be replaced on-line and we provide customers with the tailor-made service they require by working closely with both endusers and equipment OEMs. Our industrial sector portfolio includes Polymer and Plastics, Pharmaceutical, Oil and Gas Processing, Utility, Chemical, Food and Beverage, etc. We offer a cleaning and testing service for individual filters, complete filter units, pumps, valves, heat exchange equipment, dieblocks,

manifolds, pipework and associated plant.

Premium Power is an electrical engineering

consultancy specialising in power systems,

electrical safety and arc flash. We provide

safe, reliable and cost effective solutions

for the manufacturing, datacentre, utilities

and renewable industries. Electrical safety

and resilience is vitally important for large

industrial sites to help safeguard against

Precision Geomatics are specialist

national suppliers of land survey, industrial

measurement and safety equipment and are

authorised partners of Topcon, Sokkia, Leica

vears' experience in the hire, sale, calibration

knowledge and support, backed up with an

in depth understanding of the demands of

Detection, Globestock, SPX Radiodetection

and MSA to name but a few. With over 14

and repair of a vast range of survey and

safety equipment we have earned an enviable reputation for our technical

our industry.

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### **Premium Power**

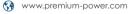


equipment failure, downtime and damage and risk of injury to employees. Talk to us about how we can help future proof your facility. We also offer expert advice in the renewable and grid integration sectors, as well as our renowned power quality work with large scale industrial systems.

### MAIN CONTACT

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#### CATEGORY

**Engineering Services** 

## PricewaterhouseCoopers LLP



region, offering a full range of services to clients of all sizes and industries

#### MAIN CONTACT

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#### **CONTACT DETAILS**



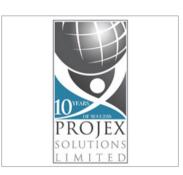
+44 (0) 191 232 8493 Central Square South, 5th & 6th Floor, Orchard

Street, Newcastle-Upon-Tyne, Tyne & Wear,

## **Projex Solutions**

CATEGORY

Professional Services



CATEGORY Engineering

At Proiex Solutions Limited our mission is to provide a first class design, development, installation and project management solution utilising the latest technologies and providing high performance systems for their relevant industries. Our design applications and solutions are based on UK and European harmonised standards and technical specifications, ensuring we meet the highest of design, control and safety criteria for your ultimate project solution. By embracing new technology we will provide our clients with solutions that exceed their expectations in performance, efficiency and technology excellence, whilst remaining competitive in the market place.

Prosafe Engineering are Process and

Safety specialists operating within the UK

and Worldwide Process industry. Based in

our bespoke range of integrity products

and specialist engineering services allow

us to add true value to our clients systems

and processes, whilst our culture of small

dedicated project teams supported by in-house technical expertise, ensures that

we execute projects more efficiently than

our more traditional competitors. We don't

and foremost we are engineers and we only

recommend products and systems we truely

take a traditional approach to sales, first

believe in.

Teesside with a regional office in Aberdeen,

PwC is a global professional service firm

offering assurance, consultancy and tax

advice to a range of clients across all sectors.

Within our core offering we provide tailored

and legal solutions. We pride ourselves on

doing the right thing for our clients: delivering

exceptional value with integrity. We act as one firm extensively networked and utilise our

talent and experience to strive with our clients

to achieve success. Our Newcastle office is

the leading professional services firm in the

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## **Prosafe Engineering**



CATEGORY Recruitment & HR

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### **ProSalus**



CATEGORY Health, Safety & Environmental

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## **ProSys Sampling Systems**



ProSys Sampling Systems Ltd specialises in the design and manufacture of sampling and containment equipment to meet the changing requirements of the pharmaceutical industry. Our products include both standard and custom engineered containment solutions. The philosophy is to contain the hazard at source, minimise cleaning, maximise flexibility and maintain an environment that is safe for all

Protel is the market leading provider of

sectors across the UK, Ireland, France,

pharma/biotech, food, drink, energy, gas and laboratory sectors. Our project

project intelligence for the main process

Belgium and the Netherlands. We report on

capex project activity within the chemical,

information is maintained by a dedicated

group of industry experts to allow suppliers of capital equipment and services to get

the insight they need to get ahead of the competition. Our UK chemical coverage

alone extends to 120 active projects with a combined potential investment value of over £3.8bn, updated live as developments

ProSalus Limited provides confidential, high

quality advice and assistance to clients

in the process industries covering Safety

their legislative, regulatory, environment

and safety obligations: Services include,

Management Systems and plans, Safety

Requirements Specifications and Proof test

studies including HAZID, HAZOP, CHAZOP, E-HAZOP, SIL Determination (LOPA, RG & RRM), Alarm Review, Site layout review and

documentation in accordance with IEC61511.

Functional Safety compliance, gap analysis, assessment and auditing. Facilitation of

Development of Functional Safety

Hazardous Area Classification.

critical aspects assisting them to meet

#### MAIN CONTACT

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### **Protel Associates**

**CATEGORY** 

**Engineering Equipment** 



**CATEGORY Business Support** 

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## **Publicity Seekers**



CATEGORY Marketing, PR, Events, Design & Printing Publicity Seekers was established in 2006 by former journalist Samantha Lee. In the last decade the PR agency has gone from strength to strength, delivering a range of public relations and marketing services to the north east's leading process, chemical and engineering companies. If you'd like to improve how you engage with your customers, employees, or other key audiences please get in touch.

#### MAIN CONTACT

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Hartlepool Innovation Centre, Queens Meadow Business Park, Hartlepool, Tees Valley, TS25 5TG

### px Group

CATEGORY



extensive knowledge, experience, competence and insight across the whole hydrocarbon energy chain by operating and maintaining some of the UK's most hazardous and high risk industrial facilities. These installations range from off-shore infrastructure, top tier COMAH sites such as gas processing and fuel storage terminals through to thermal and renewable energy plants. In addition to providing competent and professional O&M solutions the group has also developed a strong engineering capability and 24/7 energy trading platform for both gas and power.

Over the past 25 years px has gained

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## **Queen's University Belfast**

Facilities & Site Management Services



CATEGORY Education & Training www.aub.ac.uk

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## **Quorum Development**



CATEGORY IT & Telecoms

Quorum provides expert advice, software and services designed to streamline business processes and aid clear communication leading to improved operational effectiveness. Quorum's OSL product provides a centralised solution to operational logging, tracking and reporting with a focus on delivering clarity and efficiency to key activities like incident reporting and shift handover. OSL utilises a user configurable asset hierarchy in tandem with a log book structure defined by you. It complements the structure of your business and your teams to ensure that the right information is shared and understood ensuring a single view of the truth

across the organisation.

Rain for Rent is a leading provider of

temporary liquid handling solutions.

With more than 80 years of engineering

excellence in temporary liquid movement.

filtration and storage in the United States,

Rain for Rent brings this Liquid Ingenuity®

to the UK. Products and services include

services, environmental remediation,

liquid handling solutions. Combining a

newly designed storage tanks, filtration units

and spill containment for use in wastewater

construction, in fact any industry that needs

storage tank with the E-Contain® Spillguards,

your workforce, project and the environment.

filtration units and PipeStax®, will provide a

complete containment system protecting

RDW Creative is a highly creative agency

and digital services to help our clients

with a strong commercial focus. We create

intelligent solutions and combine traditional

achieve their sales and marketing objectives.

management, PR and content marketing. We

divisions), Tracerco, The TTE Technical Training

currently work with several NEPIC members

including, AkzoNobel, Fujifilm Diosynth,

Huntsman (Pigments and Polyurethanes

Group and Exwold.

Our services include brand creation, design

for print, web design & build, social media

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### Rain for Rent International UK



**CATEGORY Engineering Equipment** 

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## Readysalted

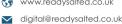


Marketing, PR, Events, Design & Printing

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## Recovery4Life

CATEGORY

Health, Safety & Environmental



## MAIN CONTACT

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www.recovery4life.co.uk



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6 Hymers Court, Brandling Street, Gateshead, Tyne & Wear, NE8 2BA

## **Redcar & Cleveland College**



CATEGORY Education & Training Education College offering a broad curriculum to over 2,500 students across a range of courses through to degree level. As 'The National College for Oil and Gas' its aim is to train the next generation of oil and gas engineers and other specialists, meeting

the onshore industry's future skills needs and providing first class qualifications and career opportunities for young people. Currently our expertise is in Oil and Gas, Electrical/ Electronic, Mechanical Engineering, Chemical Engineering, Plant Process Engineering, Business, Management, Finance, IT, Administration, Construction and Civil

Redcar & Cleveland College is a Further

We're an agency bursting with creativity,

digital, mobile development and design.

Transforming ideas. This is what we do. So why

do organisations trust us? Well, where others

see restrictions, we see opportunities. And

that's down to online experience. Over the

15 years since Readysalted opened, we've

earned a reputation for creativity, integrity

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and reliability. Delivering extraordinary ROI for

Recovery4Life offers a sector leading level of

service and expertise not widely available in the UK. We offer bespoke programmes

addressing physical health, mental health

and pharmacological history. Whether you

a business that requires testing services for

service provides a full range of flexible

one of our local clinics.

are an individual needing private support or

your staff, our specialist health and addiction

testing and treatment options in a variety of

environments - your home, the workplace or

passion and experience for all things

### MAIN CONTACT

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### **Renew ELP**



CATEGORY Energy & Utilities

### MAIN CONTACT Andrew Buchanan invested in a new technology to chemically

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### Renewablesrus



Renewables R US Ltd exists to be the expert advisor to it's clients, we research and source the most appropriate, effective and robust solution and then present this to our clients in a simple, no nonsense report in a format that is easily understood, but still with enough of the Technical details of the recommended solutions that are best suited for their circumstances, now and for their future plans and needs.

ReNew ELP ('End-of-Life-Plastics') is a

subsidiary of UK-based energy investment

firm, Armstrong Energy. ReNew ELP has

recycle end-of-life plastics into valuable

Hydrothermal Reactor (Cat-HTR) process

oils and chemicals. The patented Catalytic

provides an innovative solution to the global

problem of end-of-life plastic disposal and

economy. The company has an ambitious

programme of development in the UK. It's first

commercial scale Cat-HTR plant will be built at the Wilton industrial Site in Tees Valley.

contributes to the creation of a circular

#### MAIN CONTACT

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## Reprotec UK

Bioresources & Renewables

**CATEGORY** 



CATEGORY Polymer & Rubber

Reprotec UK Ltd, an award-winning market leader, provides bespoke resin flooring alongside the repair and protection of all surfaces: floors; walls; roofs; storage tanks; bunds and other industrial vessels. We repair and protect the fabric of buildings and structures, both concrete and steel. Reprotec invests heavily in R&D development with its environmental sustainability 'Green Theme' and waste management. As a fully licenced waste carrier, it operates a policy of 'no dust, no mess, no fumes, 100% recycling and 100% landfill avoidance.

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### **Rockliffe Hall Resort**



CATEGORY Marketing, PR, Events, Design & Printing Rockliffe Hall is an award-winning 5 AA red-star hotel, golf and spa resort located in Darlington, County Durham. The resort offers 61 luxurious bedrooms; a multi award-winning Spa; an 18 hole Championship golf course; three unique restaurants and ten meeting and event rooms that can cater for up to 270 guests. The resort has an exceptional reputation thanks to the outstanding facilities. high levels of service and convenient location and has notched up a number of awards for business amenities.

#### MAIN CONTACT

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enquiries@rockliffehall.com

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## **Rondean Machinery**



Rondean Ltd is one of the UK's leading suppliers of high quality used machinery for sheet metal fabrication, engineering and woodworking such as: Lathes, Milling Machines, Drills, Saws, Guillotines, Press Brakes, Folders, Steelworkers/Multi Station Metal Working Machines, Woodturning Lathes, Spindle Moulders, Vertical Band Saw, Panel Sizing Saws and much more.

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## Rosen (UK)

**Engineering Equipment** 

CATEGORY



CATEGORY **Engineering Services** 

The ROSEN Group is a globally leading provider of cutting-edge solutions in all areas of the integrity process chain. Since its origins as a one-man business in 1981, ROSEN has rapidly grown and continues to do so. Today the business is still privately owned and employs a team of nearly 3,000 workers, operating in more than 120 countries. The four key ROSEN areas of expertise include: Inspection of critical industrial assets; Customised engineering consultancy; Production and supply of customised novel systems; and market driven R&D

### MAIN CONTACT

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## **Roxby Training Solutions**



Roxby Training Solutions are a leading provider of technical training and assessments, committed to quality, as evidenced by our ISO 9001 and ISI Educational Oversight Certification. Specialising in Hazardous Areas, Electrical, Mechanical and Instrumentation Training. with accreditations from ECITB, EAL, City & Guilds and CompEx (JT Limited). Offering practical hands on training and assessments meeting the needs of industry Worldwide from two first class training and assessment

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## CATEGORY

Education & Training

## Royston



industrial, marine, offshore and rail sectors for more than 30 years. With bases in the UK and Perth (Western Australia) Royston have gained an excellent reputation by offering customers a comprehensive quality service as an affordable alternative to the OEM. Our 15,000sq.ft UK workshop facility with unparalleled levels of equipment for engine refurbishment, dynamometer testing and in-house fuel injection and turbocharger workshops allow Royston to be a genuine 'one stop'.

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strategy, internationalisation, operational

improvement and people development.

employing over 80 people, RTC assists

companies with innovation, business

Royston are a dynamic and expandina

diesel engine supply, service and repair

company operating successfully within the

#### MAIN CONTACT

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### **RTC North**

**Engineering Equipment** 

**CATEGORY** 



CATEGORY **Business Support** 

RTC North has over 30 years' experience helping businesses to innovate, compete and grow. We work with individuals, businesses and the public sector to help create more innovative and vibrant economies. With

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## **RVA Group**



CATEGORY Engineering Services

RVA Group is a practice of consulting engineers providing specialist management and CDM co-ordination services for large scale and complex decommissioning, decontamination, dismantling and demolition projects. The company's competent and experienced team of technical experts comprises EHS professionals, risk managers, chemical, demolition, explosive, civil and structural engineers. Having worked with prestigious names including Huntsman, BASF, Basell, Rohm and Haas and ConocoPhillips, RVA's proactive approach in this technically challenging arena is becoming evermore renowned

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## **RWS Language Solutions**



RWS is the world leader in translation and localisation, intellectual property support solutions and life sciences language services. RWS Language Solutions is committed to helping companies deliver consistent, accurate and reliable communications. We provide a full range of language services to major players in the global chemical industry Our experienced teams work with you to manage your multilingual requirements and combine the latest technology, proven processes and the best linguists to deliver the right solution to meet the different needs of your organisation.

#### MAIN CONTACT

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### **SABIC UK Petrochemicals**



CATEGORY Petrochemicals

CATEGORY

Business Support

SABIC (Saudi Basic Industries Corporation) was established in 1976 by the Saudi Arabian government to add value to the country's natural and plentiful hydrocarbon resources. Today, SABIC is among the world's leading petrochemical companies, both in terms of sales and product diversity. The Company is headquartered in Riyadh. The Saudi Arabian capital, and is the Middle East's largest non-oil industrial company. SABIC UK Petrochemicals based on Teesside has major manufacturing assets at Wilton International (Olefins and Low Density Polyethylene) and North Tees Site (Aromatics) as well as extensive storage, distribution and logistics facilities.

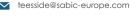
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### **CONTACT DETAILS**



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### Safesol



CATEGORY Chemicals

### MAIN CONTACT Vicki Wilson

Managing Director +44 (0) 191 447 8008

#### **CONTACT DETAILS**

www.safesol.co.uk

SAFESOL is a chemical sales and consultancy

business based in the North East of England.

peroxide, and other products based on this

the caterina sector and the biotechnology

industry. These products are designed to kill

bacteria and remove biofilm where bacteria

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## **Samson Controls**



CATEGORY **Engineering Services** 

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### Scanmarket.com



**CATEGORY Business Support** 

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## SeerPharma (UK)



CATEGORY **Business Support** 

**CATEGORY** 

Energy & Utilities

SeerPharma (UK) offer consultancy and training support in GxP compliance. This includes: Quality Management, GMP, GDP, GEP, Risk Management and Validation. We also have a wealth of practical experience in quality and productivity tools and techniques, including: Lean, Six-Sigma (6-σ), Process Analytical Technology (PAT), Cost of Quality (CoQ), etc. Our aim is the effective transfer of knowledge, expertise and experience to enable our customers to compete successfully in the regulated environments of

pharmaceuticals, biotechnology and related

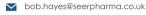
industries.

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## **Sembcorp Utilities (UK)**



Singapore-based Sembcorp Industries Group, which owns, operates and develops energy facilities around the world.

Sembcorp Utilities UK generates and supplies energy to major industrial firms at the Wilton International Manufacturing site on Teesside. We deliver secure and reliable supplies of electrical power, steam. water and other services to customers from greener, more sustainable power generating facilities. Our utilities are of vital importance to manufacturers in a range of energy intensive process sectors on the site. The UK business also owns much of the land available for development at the 2000 acre Wilton International site. We are part of the

SGE is a developer of renewable energy

term investment in the sector, deploying

schemes. Our objective is to provide an

contributing to the sustainability of our future.

We operate across a number of renewable

of Tier 1 counter parties to deliver profitable, robust projects, with long term returns.

sectors, including solar, wind, energy from waste and landfill gas, and work with a range

proven technology across a range of

excellent return to our investors, whilst

infrastructure, with a commitment to long

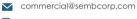
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## Seneca Global Energy



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### SGS UK



CATEGORY **Engineering Services** 

SGS is the world's leading inspection, testing & verification company employing over 76,000 people across a network of 1,500 locations worldwide. SGS Teesside operate three facilities covering oil, gas & chemical testing, instrument calibration, flow measurement, analytical instrument servicing, temperature calibration, gas detection and a brand new environmental laboratory. All three sites are UKAS accredited to ISO 17025 and provide services across many industries including

petrochemical, pharmaceutical, research,

environmental, etc. A sample management

division is also present providing warehouse

hazardous and non-hazardous products.

storage, collection, packaging & shipping of

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### Sheers

**Engineering Services** 



Sheers Ltd are an M&E Engineering Contractor specialising in design, supply and installation of chemical dosing, treatment and control systems for both municipal (potable & waste) and industrial water treatment markets. The company has a wealth of experience including installation and maintenance of toxic gas systems (Chlorine, SO2 and Ammonia)

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## Siemens PLC, Industry Automation & Drives Technology



**CATEGORY** Engineering Digitalization is the enabler for Industry 4.0. Siemens helps the chemical sector become more competitive & agile through deployment of digital ready technologies and solutions. We ensure analytical use of data provides insight for decision making. sustainability & growth.

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### Sirius Minerals



CATEGORY Minerals & Fertilisers Through the development of its North Yorkshire polyhalite project, Sirius Minerals will become a world leading producer of polyhalite, a unique multi-nutrient fertilizer containing potassium, sulphur, magnesium and calcium. The £2.4 billion project is constructing Woodsmith Mine - south of Whitby, North Yorkshire – to extract polyhalite and a tunnel system to transport it to a materials handling facility and harbour at Teesside. The polyhalite deposit is the world's largest and highest grade. At full production the Project will create over 1,000 direct jobs and many more indirectly.

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Resolution House, Lake View, Scarborough, North Yorkshire, YO11 37B

## Slaley Hall Hotel



executive and standard rooms available; Six Meetings Rooms, with the largest capacity of 350 theatre style, the Kielder Suite; Three Restaurants - Hadrians Brasserie offering understated locally sourced cuisine. Dukes Grill specialising in steak & seafood. Claret Jug relaxed & informal dining; Spa & Leisure Club - 9 treatment rooms, pool, gym, sauna, steam-room & whirlpool; Two PGA Championship Golf Courses.

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countryside Slaley Hall plays home to this

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#### MAIN CONTACT

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Slaley, Hexham, Northumberland, NE47 OBX

## **Smartsociates**

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CATEGORY **Business Support**  Smartsociates.com is an online community of Freelancers, Contractors and Small Businesses ready to deliver projects for Clients affordably and on time. Members can also support each other through one to one learning or by collaborating on innovative projects. Smartsociates supports the following features: Clients can search profiles, hire Freelancers and post project enquiries for free; Freelancers can search, bid for projects and carry out fixed or hourly price work using a flexible workpack system; Orders are fulfilled using inbuilt Pre-qualification, Quotation, Invoicing and Secure Payment system; & Inbuilt messaging, voice, video and whiteboard systems to support project communications.

### MAIN CONTACT

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## **SNF Oil and Gas**



SNF Oil and Gas Ltd, a subsidiary of the world's largest manufacturer of water soluble polyacrylamides (flocculants and coagulants), is building a 500 ktpa manufacturing plant for emulsion grade polymers in Billingham. These products will be used in water treatment plants and within the oil and aas extraction markets.

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**Solomons Europe** 

Polymer & Rubber

CATEGORY

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**Engineering Services** 



Solomons Europe is a Chartered Quantity Surveying Practice established in 1998. employing a team of quantity surveyors and project control professionals who provide integrated project support services, including: • Tendering and contract formulation • Contract administration • Commercial management • Financial and cost forecasting • Dispute avoidance and resolution We support some of the UK's Major EPC and Industrial Services Contractors who specialise in the process and engineering sectors, working on major projects throughout

SPIE are a long established company

procurement, Installation, testing and

inspection and maintenance services to the

industrial sectors including manufacturing,

providing multi-technical design,

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### **SPIE Industrial Services**



Chemical Process, on-shore and off-shore Oil and Gas, steel making and infrastructure. The company provides engineering and maintenance solutions specialises in Electrical, Control and Instrumentation, however the diverse nature of the group also provides specialist activities including Fire Detection, CCTV and security.

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## **Square One Law LLP**



CATEGORY Professional Services

CATEGORY

CATEGORY Pharmaceuticals

Recruitment & HR

Square One Law is an entrepreneurial, commercial law firm based in Newcastle-Upon-Tyne. We sit alongside growing businesses and offer our commercial expertise to help clients improve their businesses and work with individuals to reach their strategic objectives. We work closely with entrepreneurs, owner-managed businesses, fast growing businesses and strong brands. We have extensive experience advising industrial, processing, manufacturing and energy businesses in the chemical, pharmaceutical, automotive and oil & gas sectors. Our lawyers have national and international firm experience and we focus on service delivery and excellence, whilst tailored commercial advice to our clients.

#### MAIN CONTACT

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## **SRG (Science Recruitment Group)**



SRG is the market leading supplier of scientific, clinical and engineering recruitment services to the science-related industries. By putting people at the heart of what we do, we connect the best talent with the best employers on the market, helping to Create Tomorrow's World. Working with Pharmaceutical, Biotechnology, Chemicals and related industries, SRG has a range of staff with specialist knowledge within each technical area. With the ability to apply this technical knowledge, we can support you on your search for technical staff or a new position within the industry.

Sterling Pharma Solutions Ltd is a full

the discovery through to commercial

manufacture. Our mission is to be the

service API CDMO offering services from

preferred partner and provider of API services

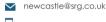
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The Grainger Suite, Dobson House, The Regent Centre, Newcastle-Upon-Tyne, Tyne & Wear, NE3 3PF

## **Sterling Pharma Solutions**



to the pharmaceutical industry. We pride ourselves on our ability to offer flexible, tailored solutions to our clients and our unparalleled expertise and commitment to customer service and quality ensure that all aspects of clients projects are executed to the highest level.

### MAIN CONTACT

Mark Muldowney Head of Technology and Innovation mark.muldowney@sterlingpsl.com +44 (0) 191 250 0471

### **CONTACT DETAILS**



www.sterlingpharmasolutions.com

The NEPIC Directory 2018





Sterling Place, Dudley, Cramlington, Northumberland, NE23 7QG

CATEGORY

Engineering

## **STS Resources & Technology**



STS Resources and Technology is a specialist supplier to the oil, gas and chemical industries. With a decade of experience we have provided a variety of skilled personnel on projects both in the UK and abroad. We also supply the market leading hot work habitat system which has been developed over 20 years and incorporates our patented automatic ignition shutdown system. Our Zone 1 rated habitat system allows for essential maintenance to take place in dangerous environments without the need for costly and time consuming shutdowns.

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where industry and commerce demand

immediacy, flexibility and value for money

products supported by a fifteen year track

of accredited training and support across

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outstanding approach to on-going employee

To Train bring together innovative E-Learning

#### MAIN CONTACT

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### CATEGORY Health, Safety & Environmental

## Synergy t/a totrain



CATEGORY Education & Training

### MAIN CONTACT

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8 Ridley Mews, Norton, Stockton-on-Tees, Tees Valley, TS20 1DW

### **Tanton Industries**



**CATEGORY** Professional Services

Tanton Industries provide owners and MAIN CONTACT investors with experienced, professional Stewart Brennan project management. This ranges from interim Director project director/manager roles through to a stewart.brennan@tantonindustries.com

whole owner's project team for the lifetime +44 (0) 1642 714 680 of a project from initial feasibility, conceptual design, project business case development **CONTACT DETAILS** through to construction, commissioning and start up. We specialise in large capital www.tantonindustries.com

and investors and to give a real time view of

forecast project outcome

projects in the process, nuclear and energy sectors. Tanton also have wide experience in independent project audits aimed at assessing the health of projects for owners

✓ info@tantonindustries.com

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Momentum, Ellerbeck Court, Stokesley Business Park, Stokesley, North Yorkshire, TS9
5PT

### **Techconsult UK**



CATEGORY Recruitment & HR

Techconsult UK is a Teesside based Resourcing Company who source people within the local and national markets across Scientific, Engineering and Technical disciplines. Our clients come to us because they know that they will receive a reliable and effective service, with the team being able to identify the best strategy to meet the resourcing challenges. To achieve success, we believe in not just being a standard service supplier but work as a strategic partner throughout the process, listening closely to our clients' needs and selecting the best people to meet their

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## Tees Safety Training



CATEGORY Education & Training At Tees Safety Training Ltd, our aim is to help you gain the knowledge, skills, and confidence you need to deal with health and safety issues or emergencies within the working environment. In addition, we assist your organisation in complying with current legislation. When you choose our company, you receive training from seasoned experts who have carried out the methods they teach in real-world scenarios. Our team benefits from the professional expertise of serving and retired fire officers. Our team has years of experience of dealing with real emergency situations, making us well placed to train you and your organisation

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## **Tees Valley Combined Authority**



CATEGORY **Business Support**  Tees Valley Unlimited is the Local Enterprise Partnership supporting the growth and development of the local economy led by a private and public sector Board. The Business Investment Team secures inward investment through an unmatched understanding of Tees Valley economic structure, supply chain, asset base and demographics. Working closely alongside DIT, across Centres of Excellence and in partnership with public and private sector organisations, Tees Valley Unlimited offers a package of support that instills confidence in location consultants and potential investors nationally and across the

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don't forget who you are and keep you front of mind. A leading creative design and print company with over 30 years experience building client and brand success. Understanding our customers business is key to create work that delivers results, helping our clients succeed. Our full in house design and print services means we create work that not only gets results but delivers exceptional value too. Highly experienced in the design

and print of materials for the process industry,

we help many NEPIC members achieve their

marketing goals.

We deliver work that means your potential

and existing customers are aware you exist,

#### MAIN CONTACT

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# **Teesside University**

Marketing, PR, Events, Design & Printing



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## Tekgem (UK)

CATEGORY Education & Training



CATEGORY IT & Telecoms Tekgem have over 20 years experience working with a variety of organisations from SME's right up to global bluechip companies from across the chemical-processing industries. Throughout that time we've worked with our customers to implement and maintain the latest cloud, managed services and cyber security technologies for Industrial & Automated Control Systems (IACS), In addition, we've built up a highly skilled and diverse team who have the latest and most relevant industry qualifications, which ensures we're uniquely placed to deliver cuttingedge infrastructure services that meet the strict demands of our customers, insurance providers and industry regulators.

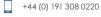
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## The Human Group North East



CATEGORY Recruitment & HR Our passion has always been to offer a service that is deliberately different to the other recruitment agencies. Recruitment is all about building relationships, getting to know candidates and clients and helping them to achieve their career ambitions and business goals. Its our human approach and sound knowledge of the recruitment sector, which spans over 45 years, that makes the difference and has resulted in candidates and clients building long term relationships with us. We take pride in offering a highly personalised recruitment service that cares for our candidates and our clients.

The Parker Consultancy was established in

technology and knowledge transfer not only

university to industry, but also corporate to

business and business to business. Projects

undertaken include coordination of major

appreciation surveys, sector analysis of R&D

capability and project management training.

collaborative programmes, customer

The principal consultant is a member of the European Industry Research Managers

Association and the Industrial Research

Wilton Centre is a leading, privately-owned

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Middlesbrough. It provides a wide range of

high quality office, laboratory and pilot plant

accommodation at competitive rental terms

with immediate occupancy. Set in a 75 acre

landscaped site, it has its own lake and boasts

1,600 free car parking spaces. On site facilities

include restaurant, gym and fully equipped

science and business park located in the

Institute (USA).

meeting rooms.

and academia. Activity largely involves

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## The Parker Consultancy



CATEGORY Business Support

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### The Wilton Centre



CATEGORY Facilities & Site Management Services

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## **Thermal Compliance**



Thermal Compliance provides validation and temperature mapping services to the pharmaceutical, healthcare and biotechnology industries. We specialise in the validation of autoclaves to international standards and perform Steam Quality Testing to EN285:2015. We provide temperature. humidity and CO2 mapping services for Fridges, Freezers, Incubators, Cold Stores, Humidity Cabinets, Depyrogenation Tunnels and Ovens. We cover a temperature range of -19°C to 400°C. Visit our website for more

Thermal Detection are manufacturers of

industries. We specialise in supplying the

healthcare sector. We have over 30 years

experience of designing products for difficult

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major OEMs and end users, and many have

since standardised on our products. We are

committed to supplying high quality products and are accredited to BS EN ISO9001:2008, All

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ThermoFisher Scientifics Bio Process

Production Cramlington facility manufactures

BioProcess Containers (single use bag and

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quality water) under cleanroom conditions

to EU GMP guidelines. Our products are used

media, chromatography buffers and WFI

within the European biopharmaceutical

industry and our US parent supplies the rest

of the world. Our focus is on supplying the

customer with the custom products that

meet their needs in terms of quality and

training the staff who work in our modern

performance. Great emphasis is placed on

to the customer.

application areas within the Sterile Services

pharmaceutical/biotechnology and

industrial temperature sensors and ancillary

products for all process and manufacturing

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CATEGORY **Engineering Services** 

### **Thermal Detection**



CATEGORY **Engineering Equipment** 

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### Thermo Fisher Scientific



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Think Global Growth



CATEGORY **Business Support**  Think Global Growth is dedicated to helping clients improve their international capabilities across a range of disciplines. Recognising that the key drivers for international growth are either revenue generation or cost reduction we are able to both significantly impact on the operational efficiencies of an international operation and help drive revenues in new alobal markets. With deep knowledge of both in-country dynamics and a global network we are able to develop client capability in such diverse but fundamental areas as: Market Strategy, International Market Entry, Digital Marketing, Supply Chain & Logistics Management, Finance and Cash Management, Cultural Fluency and Outsourcing.

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### Thomas Swan & Co



Thomas Swan & Co. Ltd. was founded in the UK in 1926 and remains a leading independent family owned and run performance and speciality chemical manufacturing company. The company turns over approximately £28m per annum, employs 175 people and exports approximately 75% of its products to over 80 countries from its manufacturing headquarters in the North East of England. It has offices in the USA and China. The business is divided into 3 divisions which include: Performance Chemicals, Custom Manufacture and Advanced Materials.

Thorne & Derrick are a specialist provider

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equipment. This includes Process Heating,

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located to service the needs of our process

industry clients in the region. Understanding

client demands is key to our business strategy

purpose, independent technical proposals

as is our commitment to providing fit for

that fulfil customer specifications.

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### TJ Hazell

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TJ HAZELL (Engineering Consultants) Ltd formed in 1979 is a division of Wolviston Group Ltd that provides best in class Civil & Structural Engineering, Fabrication Detailing and Management Services across a wide range of industries. Consistently delivering safe, compliant and excellent engineering services/products and solutions through teamwork, creativity and resourcefulness that meet the unique needs and expectations of each Client and one that earns their trust and builds lifetime relationships.

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## **Tolent Construction**



the petrochemical plants & industrial sites of Teesside & beyond, commonly in the capacities of 'Design & Build' and/or Principle Contractor. Alongside our Teesside regional office, Tolent operate from three resident contractor offices & compoundfacilities at the Wilton & North Tees Petrochemical Sites, and at the SSI/TATA Industrial Site from which our dedicated teams service our clients civil engineering & building needs.

manufacturers such as CRANE ChemPharma

Flow Solutions with the DEPA and ELRO

brands, and is also the sole distribution

addition it is a key distribution partner with

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Grundfos, Goulds, Flux and Calpeda pumps.

The company also manufactures Liquivac, an innovative liquid ring vacuum pump (www.

partner for the full Richter portfolio. In

Tolent provide our valued clients with the

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projects & maintenance services within

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## Tomlinson Hall & Co - Pump Engineers



CATEGORY **Engineering Equipment**  Founded in 1919, Tomlinson Hall has MAIN CONTACT vast expertise in pump distribution and Colin Simpson manufacturing, and offers full service Business Development Director solutions. It is the sole UK partner for pump Colin.Simpson@tomlinson-hall.co.uk

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### Tracerco



CATEGORY **Engineering Services** 

Tracerco, part of Johnson Matthey Plc, originated in 1958 as a small research team within Imperial Chemical Industries (ICI) in Billingham, Tees Valley UK. From its beginnings, Tracerco has continued to expand its product range and geographical reach, responding to customers' needs and market opportunities. Today, Tracerco is part of the Process Technologies Division of Johnson Matthey and is a world leader in its field. Its innovative range of products and services are invaluable to ensure full optimisation and efficiency of its customer's assets across the oil, gas and petrochemical industry.

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CATEGORY Energy & Utilities

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encourage an atmosphere of innovation

within our workforce and pride ourselves on finding industry leading solutions. Our

expertise is built on a platform of shared best

practice, a drive for continual improvement

and an appetite for success.

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### **TSG Marine**



CATEGORY **Engineering Services**  TSG Marine provide innovative engineering MAIN CONTACT solutions to the Oil & Gas, Marine and Sophie Read Renewables industries. With a focus on

Marketing Coordinator supplying integrated services to our clients, sophie.read@tsgmarine.co.uk we ensure the seamless delivery of survey, +44 (0) 191 495 2255 engineering, verification, procurement and project management activities. We

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## **TTE Technical Training Group**



CATEGORY Education & Training

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### **TUM International GmbH**



InSITE BAVARIA is a division of TUM International GmbH, InSITE BAVARIA cooperates globally with economic development agencies to develop industrial sites with unique profile, stable networks, services and support infrastructures. InSITE BAVARIA gives them a fundament for successful and sustainable operation and makes them attractive for settlement decisions. InSITE BAVARIA provides strategical consultancy and coordinates a network of experts from: urban development, industrial plant and facilities management.

Unite is dedicated to serving the best interests

standard of living and the quality of their lives

through effective relationships with employers

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not in employment are welcomed into the

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Industrie Center Obernburg, 63784 Obernburg, Germany, 63784

### **Unite the Union**

**CATEGORY** 

**Business Support** 



**CATEGORY Business Support**  MAIN CONTACT Fazia Hussain-Brown

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## **University of Bradford**



CATEGORY Education & Training

The University of Bradford is a technology focused university supported by world leading facilities and expertise. We have over 50 years of experience of working with businesses to deliver research services and realise the importance of understanding the present day challenges you face. We design our research services around your needs, whether that's adapting or developing product ranges, services or infrastructure to give you a competitive edge. We can also explore affordable routes to achieve this. some of which are only available through working with Universities, such as Knowledge Transfer Partnerships, the most successful Knowledge Transfer Programme in Europe.

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## **University of Sunderland**



CATEGORY **Education & Training** 

The life changing University of Sunderland has 20,000 students based in campuses on the North East coast, in London and Hona Kona and at its global partnerships with learning institutions in 15 countries. We are proud of our long-established commitment to widening participation, our world-leading research, public and private sector collaborations and our track-record for providing quality student experiences that result in graduates who are the tomorrow-makers of our societies and economies.

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## **Utilitywise plc**



CATEGORY **Energy & Utilities** 

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## **Venator Materials Corporation**



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Chemical

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pigments and performance additives. We are focused on delivering pigments and additives that make a difference to daily life and contribute to a more sustainable future. Our broad and versatile portfolio of leading pigments and additives includes many wellknown brand names and industry-leading products. Developed by a talented team of experts, who are committed to continuous, customer-focused innovation, our products are marketed globally to a diversified group of customers.

**VEOLIA Water Technologies - Mobile Water Services** 

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Greatham Works, Tees Road, Hartlepool, Tees Valley, TS25 2DD



technologies, products and services for water and wastewater treatment, resource recovery and energy generation. If you are looking for a water treatment company that can support you with technical and services expertise, and supply you with high-quality, cost-effective products and support, we believe we are the ideal choice. As a part of - and with the backing of - Veolia, the world's leading environmental solutions company. we offer you history, financial stability, deep industry expertise – and passion and pride in

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Venator are a leading global chemical

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and manufacture of titanium dioxide (TiO2)

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## **Vertellus Specialties UK**

Facilities & Site Management Services



CATEGORY Chemicals

Vertellus Specialties (UK) Ltd is a COMAH top tier site and is registered to ISO9001-2008. We have full liquid and solids handling capabilities including distillation, flaking, filtration, granulation and drying. One of our six plants is equipped to manufacture Biomaterial products to medical device standards. Raw materials handled include Allyl Chloride, Acrylamide, Methacrylates, Crotonaldehyde, Epichlorohydrin, Hydrogen Peroxide, Maleic Anhydride, Sulphur Trioxide, Dimethyl Sulphate and Hydrazine. We have our own range of Heterocyclic Boronic Acids and we have expertise in Tchichibabin, Phosphocholine and Pyridine chemistries

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## Victrex Manufacturing



CATEGORY Polymer & Rubber Victrex plc, is the leading global manufacturer of high performance Polyaryletherketones. The company has two divisions: Victrex Polymer Solutions focuses on transport, industrial and electronics markets with brand names such as VICTREX® PEEK polymer VICOTE® coatings APTIV® films and VICTREX Pipes™. Invibio® BiomaterialSolutions provides access to highly specialised biocompatible PEEK-based materials and services for medical device manufacturers. With production facilities in the UK backed by sales and distribution centres serving more than 30 countries worldwide, our global market development, sales and technical support services work hand-in-hand with customers offering practical assistance in areas of processing, design and application development.

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## **Ward Hadaway Solicitors**



CATEGORY Professional Services

Ward Hadaway is one of the top 100 law firms in the UK with offices in Newcastle. Leeds and Manchester, Our chemical and pharmaceutical group provides clients with commercially-focused, practical legal advice on all issues affecting the sector including funding, acquisitions and disposals, intellectual property, energy and SHE compliance issues, construction and energy, planning, property, employment, and competition issues. Our clients range from multinational manufacturers and site operators to smaller supply chain businesses. We can advise on all relevant matters including major process infrastructure projects, plant maintenance and shutdown, workforce management and corporate

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## WayMark IT



CATEGORY IT & Telecoms

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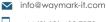
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## **WH Partnership**



CATEGORY Engineering

CATEGORY

Engineering

WHP specialises in the integrated design, construction, validation and maintenance of process systems, clean environments, industrial production and manufacturing facilities worldwide. Our clients include multi-national corporations, research and development companies and smaller-scale entrepreneurial enterprises. Our professionally skilled and qualified teams work to develop innovative solutions to all your project needs – on time and to budget. Unlike many companies, we don't just design facilities, we also build them; so there is continuity of thought, process and execution.

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#### **CONTACT DETAILS**

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 $\checkmark$ 

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### **Williams Process**



Williams Process is a specialist Process Consultancy, set up to help its customers make their manufacturing processes Efficient, Efective and Compliant, With increasing pressures on Quality, Safety, Speed and Cost from customers and regulators, it is essential to get the most from manufacturing processes. The fundamentals of Science and Engineering play a big part in this. Williams Process takes technical expertise in science and engineering, along with practical experience of designing and optimising processes, and uses them to support your process needs.

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35 Gypsy Lane, Nunthorpe, Middlesbrough, Tees Valley, TS7 0DU

### Wilton International



**CATEGORY** Facilities & Site Management Services

Wilton International offers major advantages to energy-intensive businesses looking to succeed. The 2,000 acre site is one of the UK's most important locations for process industry manufacturing. Centred on Teesside in North East England - a major UK exporting region - the "can do" attitude of the people and the site's distinctive features and capabilities make it attractive to a broad range of businesses, particularly those in industrial sectors requiring large amounts of energy. Recent years have seen significant investments by firms in rapidly growing high

### MAIN CONTACT

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### **CONTACT DETAILS**



www.wiltoninternational.com



enquiries@wiltoninternational.com

+44 (0) 1642 212 019

Wilton, Tees Valley, TS90 8WS

### Wilton Transport



CATEGORY Logistics & Distribution Direct to Equipment re-fueling.

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Transport HQ, Wilton International, Redcar, Tees Valley, TS10 4RG

## **WISE Campaign CIC**



WISE enables and energises people in business, industry and education to increase the participation, contribution and success of women in science, technology, engineering and mathematics (STEM). WISE members inspire girls to choose maths, physics and computing. WISE members attract, retain, develop and progress female talent in their companies. Our mission: gender parity in the UK's scientific, technology and engineering workforces from classroom to boardroom.

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## **Wolviston Management Services**



CATEGORY Recruitment & HR

CATEGORY **Business Support** 

> Formed in 1980, Wolviston has become a leading name in the Recruitment Industry and we are constantly evolving, finding new markets to maintain our competitive edge to support the major shift in global economies, working with our clients to reduce operating costs. The Group provides permanent staff recruitment, search and selection, temporary personnel and has grown significantly, both organically and by strategic acquisition, to match demands of client, global, political and economic performance. Wolviston Group brands in the UK include; Wolviston Management Services Ltd, Manning Limited, Wolviston Training Resources, Wolviston HR Solutions and T. J. Hazell (Engineering COnsultants) Ltd.

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## Womble Bond Dickinson (UK) LLP



CATEGORY Professional Services

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## Wood



CATEGORY Engineering

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## **WorleyParsons Europe**



CATEGORY Engineering

WorleyParsons is a leading provider of professional services to the resources & energy sectors and complex process industries. Our services cover the full facilities spectrum both in size and lifecycle - from the creation of new assets to services that sustain and enhance operating assets. In four customer sector groups - Hydrocarbons, Chemicals, Power, Minerals & Metals and Infrastructure & Environment, WorleyParsons offers extensive expertise delivered by local specialists across our comprehensive global network.

Bond Dickinson is a leading national law

most to our clients. We have many years

of experience in the chemicals and wider

manufacturing sector in the North East as

well as complementary expertise in relation

to oil and gas, energy and renewables. Our

chemicals group comprises lawyers who have worked in the industry for many years

and in-house lawyers or on secondment, as well as experts in health and safety,

environment and other specialise areas.

The Central Area Transmission System

processing system that transports aas

(CATS) is a natural gas transportation and

from the Central North Sea to Seal Sands.

platform, pipeline and processing terminal,

is owned by CATS Management Limited, a

subsidiary of Antin Infrastructure Partners.

The pipeline and terminal are operated by Wood. Gas producers connect directly

to CATS via the riser platform or at any of

trains, or to the adjacent Teesside Gas

the subsea tees along the pipeline. At the

terminal, the pipeline gas is treated to remove contaminants, and is metered before being routed to either the CATS gas processing

Teesside, CATS, which comprises a riser

sector expertise and delivering what matters

firm with strategy firmly based on deep

### MAIN CONTACT

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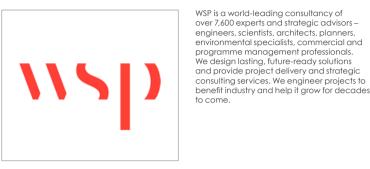
www.worleyparsons.com



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### **WSP**



CATEGORY Engineering

#### WSP is a world-leading consultancy of MAIN CONTACT over 7,600 experts and strategic advisors – Stuart Gunn engineers, scientists, architects, planners,

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## **YCF**

CATEGORY

**Business Support** 



The membership organisation for the manufacturing and process industries, offering support and networking opportunities to companies both large and small. Together, our members share best practice and overcome common industry challenges. Home of Cosmetics Cluster UK and Chemicals Cluster UK.

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## **Zenith People Ltd**



CATEGORY Recruitment & HR

Zenith People is a friendly and professional recruitment agency with over 15 years' experience of matching people and skills to help businesses grow and individuals realise their career ambitions. We've been working with a broad range of clients across the North East since 2001; so not only have we gathered lots of recruitment experience in that time, we've also come to know the region inside out. Our consultants work heavily in the Process & Pharma, Engineering, Manufacturing, Food, Automotive, IT and Commercial sectors for businesses large and

### MAIN CONTACT

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# CLASSIFICATIONS

## **NEPIC MEMBER COMPANY CLASSIFICATIONS 2018**

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# CLASSIFICATIONS

### **BUSINESS SUPPORT**

CPI - Centre for Process Innovation

Definition IP

Department for International Trade

Hallidex

Institute of Measurement and Control

Institution of Chemical Engineers (IChemE)

Johnson Procurement Solutions Materials Processing Institute

NECC (North East England Chamber of Commerce)

New Results

NNFCC The Bioeconomy Consultants

NOF Energy

OCR International

Plenary Project Solutions

Protel Associates

RTC North

**RWS Language Solutions** 

Scanmarket.com

SeerPharma (UK) Smartsociates

Tees Valley Combined Authority

The Parker Consultancy

Think Global Growth

TUM International GmbH Unite the Union

WISE Campaign CIC

YCF

### CHEMICALS

Huntsman Polyurethanes (UK)

INVISTA Textiles (UK)

Kemira Chemicals (UK) Klüber Lubrication Great Britain

Safesol

Venator Materials Corporation

Vertellus Specialties UK

### CONSUMER GOODS

ESSITY UK

### **CONTRACT MANUFACTURING**

British Rema

Chemoxy International

Exwold Technology

### **EDUCATION & TRAINING**

ARK Associates

CIEC Promoting Science

County Durham & Darlington Fire & Rescue Service

Community Interest Company

Durham University

Durhamlane

Gateshead College High Tide Foundation

Middlesbrough College

Newcastle University

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Northumbria University

Queen's University Belfast Redcar & Cleveland College Roxby Training Solutions Synergy FTP t/a totrain Tees Safety Training Teesside University TTE Technical Training Group University of Bradford University of Sunderland

### **ENERGY & UTILITIES**

Academy of Joint Integrity Armstrong Energy Connected Energy EON Energy Solutions Glacier Energy Services Northumbrian Water Oakes Energy Services

Power Roll Renew ELP

Sembcorp Utilities (UK)

Seneca Global Energy Trinity Energy Management

Utilitywise plc

### ENGINEERING

21 Degrees

6 Engineering

ABB Consulting Advanced Barrier Coatings

AECOM

Altrad Services

**AMP** Consultants

Ashville Management

AVID Technology

Axiom Engineering Associates

Bignall Group

Bilfinger Industrial Services UK

Bilfinger Tebodin UK

Blackmonk Engineering Bouygues Energies & Services

Cavendish Northern Covol Engineering

Derwent James

Design Research and Development Company

Doosan Babcock Dyer Engineering

E&I Solutions

**Emerson Automation Solutions** 

**ENGIE Fabricom** 

FEG

Francis Brown

Frazer-Nash Consultancy Graham Hart (Process Technology)

Haden Freeman

HFL Consulting Hydram Engineering

Industrial and Marine Hydraulics

Industrial Decommissioning Group (Indecom)

Jacobs Group JBA Engineering K Home International

Kawasaki Heavy Industries (UK)

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Lauda Technoloay Lifestyle Architecture Lynas Engineers **MMI** Engineering

Parsons Brinckerhoff Projex Solutions

Siemens PLC, Industry Automation & Drives Technology

SPIE Industrial Services Tolent Construction WH Partnership Williams Process

WorleyParsons Europe

#### **ENGINEERING EQUIPMENT**

Airlane Pneumatics A-Plant Hire Company Bakercorp UK BLH Nobel (VPG Systems UK)

Chemical Process Solutions

Eastern Seals (UK)

Equipment Supplies & Consultancy Services

Hadrian Technology Induchem UK John Morfield JULABO UK

JWF Instrumentation

Kanon Liquid Handlina Kawasaki Robotics (UK) KGM Refrigeration

KW Designed Solutions

Lokring Northern (UK)

Megator

Micropore Technologies Northern Balance

Peak Performance Partnership (3P)

Perry Process Equipment

**Precision Processing Services** ProSys Sampling Systems

Rain for Rent International UK

Rondean Machinery

Royston

Thermal Detection

Thermo Fisher Scientific

Thorne & Derrick International

Tomlinson Hall & Co - Pump Engineers

### **ENGINEERING SERVICES**

Bespoke Electrical

CSC Services UK (Confined Space Contract Services (UK)

DJS Process Consulting

G Mech Engineering Service

G Robinson Design Engineering Services

GME Industry **HLA Services** 

Houghton International Electrical Services

Industrial Technology Systems (ITS)

IRIS Engineering and Technology

Midas Cladding Services

Moore & Watkins t/a North East Factors

Oranmore Environmental Services

Patrick Parsons Pipetawse

PM Group Precision Geomatics

Premium Power Rosen (UK) **RVA Group** 

Samson Controls

SGS UK

Solomons Europe Thermal Compliance

Tracerco

### **FACILITIES & SITE MANAGEMENT SERVICES**

APM Cleaning

Biochemica Group

Boulting Environmental Services (BES)

Complete Material Handling Denholm Industrial Services

DJM Aerial Solutions

Eco Facilities Solutions

Falck Safety Services (Falck Nutec)

Future Industrial Services

Intasite

Jet Aire (DC)

KDC Contractors

Lanes Group plc Maxim Facilities Management

MP Storage & Blending

nx Groun

The Wilton Centre

VEOLIA Water Technologies - Mobile Water Services

Wood plc

### FINE & SPECIALITY

Johnson Matthey Catalysts

Thomas Swan & Co

FOOD Marlow Foods

## HEALTH, SAFETY & ENVIRONMENTAL

BWC Performance (Beyond World Class)

Ecosury

Engica Technology Systems International

Enviresearch

Falck Fire Services UK

GexCon UK

Hall & Anaus

Hawkes Fire

Imvelo

Keltbray Environmental Solutions

Lisam Systems

Lockout Tagout Safety National Safety Passport

Nusafe Europe

PMC Supplies

ProSalus

Recovery4Life

STS Resources & Technology

## IT & TELECOMS

AByte Solutions Cellular Solutions (NE)

Elisian

Evolution MRO

Excelpoint

FoCul Industrial Thinking

IT Accessed Jumping Rivers

Pepperl+Fuchs GB

Phusion IM

Quorum Development

System 88 Tekgem (UK)

WayMark IT

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Metrohm UK

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Brenntag Birtley Bulkhaul

David Fox Transport Durham Tees Valley Airport

Inter Terminals Navigator Terminals Seal Sands

PD Ports

Wilton Transport

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AlphaGraphics North East

Arttia Creative

Big Purple Productions

Forrest Digital Go Limitless Marketing

Horizonworks Marketina

Hospitality Guaranteed

House of Type (HOT) Intimation Creative

Marketwise Strategies

Media & Crisis Management

Middlesbrough Football Club Mike Walker Photography

Onyx Health

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RDW Creative Readysalted

Rockliffe Hall Resort

Slaley Hall Hotel Teesprint & Design

## MINERALS & FERTILISERS

CF Fertilisers UK

### PETROCHEMICALS

ConocoPhillips Petroleum Co. UK

INFOS Nitriles IIK

SABIC UK Petrochemicals

## **PHARMACEUTICALS**

Aesica Pharmaceuticals

Arcinova

Fine Organics GlaxoSmithKline

Sterling Pharma Solutions

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Interface Polymers

IPS Flow Systems

Lotte Chemical UK Lucite International Speciality Polymers & Resins

Lucite International UK

Pollywood Reprotec UK

SNF Oil and Gas Victrex Manufacturing

#### PROFESSIONAL SERVICES

AlJ Partners

Bonaccord

Endeavour Partnership LLP FW Capital

Harlands Accountants LLP HGF

Marks and Clerk Murgitroyd

PricewaterhouseCoopers LLP

Square One Law LLP Tanton Industries

Ward Hadaway Solicitors Womble Bond Dickinson (UK) LLP

**RECRUITMENT & HR** 

Accentuate Northeast Body Balance

**CDS** Recruitment

CK Group CY Partners

**DBA HR Solutions** HR2day

Innovation NE KDM Partnership Kelly Services

MSS People

Populus Select Prosafe Engineering

SRG (Science Recruitment Group) SSK Recruitment

Techconsult UK

The Human Group North East TJ Hazell

Wolviston Management Services Zenith People

## RESEARCH, DEVELOPMENT & ANALYTICAL

High Force Research

Intertek Wilton

NewChem Technologies

Cleansing Service Group

WASTE MANAGEMENT & RECYCLING Augean PLC

O'Brien Waste Recycling Solutions

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The Centre for Industry Education Collaboration (CIEC) creates and sustains links between school science and industry's people and practices.



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To get involved contact Louise Wise at: Louise.wise@york.ac.uk

