

EXIST

Exeter Initiative for Science & Technology

insight

A focus on science,
technology, & innovation
for the business community

DEC 18 **ISSUE 08**

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ABOUT EXIST AND INSIGHT

The Exeter Initiative for Science and Technology (ExIST) is a sub-group of Exeter Chamber of Commerce and Industry. The group was founded in June 2011 by a group of business leaders in Greater Exeter. The group aims to optimise interaction between science and technology businesses trading in the area, to increase awareness of Exeter as a centre for science and technology, to build relationships between education at all levels and business, and to encourage investment in the STEMM industries in the region.

ExIST Insight aims to raise recognition of the STEMM organisations and its community within Exeter and the local region. The quarterly newsletter enables us to share information within the network and for external promotion to encourage increased visibility of Exeter as a science city.

Find out more
www.existexeter.co.uk

 **EXIST_Exeter**

Editorial & Advertising
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info@existexeter.co.uk

ISSUE 08

WELCOME TO ISSUE 8 OF EXIST INSIGHT

My name is Karl Friedrich, and I am the interim chair of ExIST, steering the group through the next few months. So far, I have thoroughly enjoyed the role, overseeing the last event on Living with Plastics (you can read more about it opposite, and watch the presentations again on the ExIST website) and this, our eighth edition of Insight. In my day job as a partner of engineering consultancy Hoare Lea, I work with our teams of engineers, designers, and technical specialists to bring buildings to life. It requires passion, problem-solving, and personal service – and it's a role I relish.

In this issue we have met with some exceptional leaders in their fields, from a broad spectrum of science and tech in Exeter. On page 4 we meet Joan Foreman, the director of NHS Digital in Exeter, a team of 300 people based at Pynes Hill – part of a wider UK team of 3,000. On page 6 the region's new European Space Agency Ambassador Donna Lyndsay, tells us more about her role. And on page 8, we learn more about Flybe's new initiative to encourage more women into STEMM careers from the airline's chief executive,



Karl Friedrich

Christine Ourmières-Widener. ExIST's next event will take place on 31st January at Sandy Park, where we will hear from a group of inspirational speakers on science and tech on physical health, activity and wellbeing. I am working on the event with incoming chair Clodagh Murphy, who will take the helm in the New Year.

I hope you enjoy this issue of Insight and I look forward to welcoming you to our next event.

www.existexeter.co.uk

Karl Friedrich



Exeter Chamber
of Commerce & Industry

Be part of Exeter's business success
and join Exeter Chamber today

visit www.exeterchamber.co.uk/success

MULTI-MILLION-POUND PROJECT WILL PUT DEVON AT THE FOREFRONT OF SOLVING GLOBAL ENVIRONMENTAL AND BIG DATA CHALLENGES



A £6.4 million initiative to boost Devon's expertise in solving future global environmental and big data challenges has formally launched in Exeter - The Environmental Futures & Big Data Impact Lab (Impact Lab).

140 guests attended the launch, including business leaders, regional influencers, technical specialists and local and national government representatives. The event was a chance to learn about the Impact Lab

and hear from some of the businesses it has already helped, since its inception in January 2018.

Led by the University of Exeter, the Impact Lab is based at the state-of-the-art Met Office HPC Complex and part-funded by the European Regional Development Fund. The initiative brings together Devon's leading scientific research centres to help Small to Medium Enterprises (SMEs) to create innovative products and services.

The Impact Lab is a partnership of seven organisations: University of Exeter, Exeter City Futures, Met Office, Plymouth College of Art, Plymouth Marine Laboratory, University of Plymouth and Rothamsted Research.

Robert Kathro, Impact Lab Programme Director, said: "The Impact Lab is a service for SMEs in Devon who need deep technical support to help them solve a key business challenge in the fields of big data, data science and environmental futures.

"Each of our clients receive a bespoke package of support, tailored to their requirements and addressing their specific challenge. Experts from our seven partner organisations ensure the highest quality support and advice is offered."

Since January 2018, the Impact Lab's Innovation Support Team has engaged over 100 businesses. It is now delivering a number of projects, creating innovative new products and services with Devon-based businesses through the exploitation of environmental intelligence and data science.

www.impactlab.org.uk

EXIST EXPLORES THE IMPACT OF LIVING WITH PLASTICS

This month, Exeter Chamber subgroup, Exeter Initiative for Science and Technology (ExIST) held its latest event which focused on the extremely relevant topic of plastics and what impact plastic is having on the planet combined with the science, research and development of alternative materials and technology.

Speakers including Dr Mark Hennen of ARGANS Ltd, Jessica Hickie from the Environment Agency, Dr Don Wellings, founder of SpheriTech and Kate Salmon of Row for the Ocean.

Thanks to sponsors Bitpod, both the film and the presentations are available in the media centre on our website:

www.existexeter.co.uk



WATCH
THE EVENT



NHS DIGITAL DELIVERS IN EXETER



JOAN FOREMAN IS THE HEAD OF THE DIGITAL DELIVERY CENTRE IN EXETER FOR NHS DIGITAL, THE NATIONAL INFORMATION AND TECHNOLOGY PARTNER TO THE HEALTH AND SOCIAL CARE SYSTEM.

NHS Digital is a public sector organisation of 3,000 people based largely in Leeds, but with 300 people working at the Exeter Hub. The Exeter team cover a range of areas including delivery of digital services (through the Digital Delivery Centre), service management, application support and hosting, as well as providing a national contact centre.

Joan's role covers a wide range of areas from oversight of the day to day running of the department, to building

relationships with local academic institutions and technology companies to identifying areas of common interest. The Digital Delivery Centre in Exeter forms part of the wider NHS Digital Delivery team and is comprised of 130 staff including developers, business analysts, system engineers, delivery managers and testers.

We met with Joan, to find out more about NHS Digital and the services the Exeter team delivers.

Joan said:

“OUR VISION IS TO HARNESS THE POWER OF INFORMATION AND TECHNOLOGY TO IMPROVE HEALTH AND CARE.”

“The working day is centred around communication and technology – developers, testers and analysts partner-up to jointly deliver incremental changes. Through collaborative activities the team support each other to focus on their common goal and ensure the best possible outcome for patients – the end beneficiaries of our work.”

Service Case Study: Bowel Cancer Screening

Our work covers a number of key national services supporting the NHS, including the e-Referral Services, NHS 111 Directory of Services and Bowel Cancer Screening.

Currently one of the key deliverables the team is working on are the changes to Bowel Cancer Screening system required to support the introduction of the new bowel cancer home testing kit. The test will be offered to all men and women aged 60 to 74, every 2 years.

Early diagnosis is crucial to saving lives – if diagnosed early, more than 90% of bowel cancer cases can be treated successfully. Bowel cancer is currently the second biggest cancer killer in England, it is hoped the new screening test will make a real difference.

The team's work focuses on how to manage delivery of the IT system which supports the bowel cancer screening programme. In the last 12 months the Bowel Cancer Screening System invited 4.9 million people for bowel cancer screening; processed the results of

2.9 million returned kits. The result of this is that over the last 12 months the Bowel Cancer Screening Programme identified 3,149 cancers.

Technology development

The team is continuously innovating. Current projects include increasing the level of automation within the build pipelines and leveraging cloud technologies to deliver cutting-edge services – e.g. automatic scaling under heavy use, and automatic recovery from system failures. The team is also exploring the opportunities for AI especially in areas of predictive behaviour.

Joan said: “This is a very exciting time for the use of technology in NHS and Social Care.

We are looking at opportunities to work with local academic and technology companies specialising in areas including neural networks looking at predictive behaviour and analytics; distributed trust solutions with Blockchain technology; companies using cloud technologies to deliver highly-secure, highly-available and highly-scalable containerised application; and other innovative use cases using leading edge technologies that can benefit our healthcare systems.”

Skills in STEMM

NHS Digital is keen to develop and support people entering into STEMM careers: the Digital Delivery Centre in

Exeter has several initiatives operating to encourage skill development, welcoming more than nine young people through various schemes in the current year.

Last month the Exeter team welcomed the first three apprentices. The apprentices will be working towards their degrees BSc (Hons) in Digital & Technology Solutions which is awarded by QA & University of Roehampton, while simultaneously gaining valuable, real work experience.

Last year, NHS Digital Exeter took on a 1-year placement student. This year the opportunity has been expanded to offer three computer science students the placement opportunity.

The team is now looking to bring in technology graduates to join the two-year graduate training programme from September 2019.

Joan said: “We have been really impressed with the quality of the students who have come to work with us – this has led to us scaling up our placement opportunities immediately. Personally, I would encourage students to consider a future in digital technology – there are new and exciting opportunities in this field all the time.”

For more information on NHS Digital, visit www.digital.nhs.uk

To get in touch with the Exeter NHS Digital contact Joan Foreman on **01392 687025**

STRAND BEASTS, SLIME & SPACE

INSIGHT MEETS DONNA LYNDSEY FROM THE EUROPEAN SPACE AGENCY



DONNA LYNDSEY IS THE AMBASSADOR FOR THE EUROPEAN SPACE AGENCY (ESA) FOR SOUTH WEST ENGLAND AND SOUTH WALES.

Donna is tasked with raising awareness of ESA Business Applications funding, particularly among SMEs and aiming to increase the number of South West firms using space technology and science.

This includes location, navigation and timing services to satellite communications, earth observation (analysing the earth from space) and human space flight.

Insight met Donna to find out more about the ESA's work in Exeter and her role.

The South West programme, funded by ESA and hosted by Exeter University, aims to directly engage ESA with at least 12 Businesses, helping them utilise the wealth of information generated by space technology. Donna joined ESA in September 2018 and set herself the task of creating a pipeline of companies in the South West and South Wales that are developing and providing new services using space technologies and who are, or will be, funded by ESA within 12 months.

Donna said: "My key priority is to raise awareness of the funding available to SMEs, through a variety of routes – connecting and contacting businesses I already know work in these fields, arranging one on one meetings, developing a digital and social media campaign to reach relevant companies and utilising relevant networks and events like ExIST. We will also be running a launch event to discuss the funding and support available, which will give additional insight into real world services being delivered commercially today."

It is important to the success of the project that those companies who are considering new services get real value from Donna's support. Donna will help business leaders find and connect with the right partners to support their ideas and innovations with specialist knowledge or delivery capacity.

"The real joy of the work is when you spot a need and can deliver the necessary support required."

Through enabling companies to develop world leading services using ground breaking technologies, the ESA aims to stimulate and encourage commercial activity and create the ability to market these new services globally, helping to put Exeter on the map in this growing sector. The project will also enable the development of essential technical skills and commercial infrastructure to attract more companies to the area.

“THE REAL JOY OF THE WORK IS WHEN YOU SPOT A NEED AND CAN DELIVER THE NECESSARY SUPPORT REQUIRED.”

Donna said: "Exeter is central to the region I cover, and has all the infrastructure, research and fantastic supporting institutions. The Science Park where I am based, also supports many SME's who should look at our funding programme. Selfishly, as I live on Exmoor it's a great location for me to be based in – and I think lifestyle will be an important part of the mix for others coming into the area to work in science and tech too."

On a personal level, Donna is keen to encourage more people into STEMM. She said: "I've always been passionate about ensuring young people, particularly in our rural areas on Exmoor, have opportunities in understanding why Science, Technology, Engineering, Arts and Mathematics (STEAM) are important. As they will be entering a world where jobs will be so different to those around today, they need to develop flexible and problem-solving skill sets."

To support this ambition Donna has helped local rural schools in accessing funding for robotics, science and technology through working with the Ogden Trust and, with Somerset County Council support, she established a Lab for 10 local primary schools to access, enabling the children to access STEM and university led teaching support. "The Strand Beast is a good example of beautiful design, that bridges art and engineering, can be translated to

space – NASA are looking at how to use similar designs for robots on Mars. Through working with schools it's clear that we can quickly lose children, and girls in particular, from these subjects by not portraying how relevant and exciting STEAM can be. It's not that the interest doesn't exist – you only need to look at how many children, girls in particular, love making slime!"

Donna started her own career as a cartographer at Exmoor National Park. It was while creating their Geographical Information System (GIS) that she uncovered some original remote sensing research undertaken by the previous National Park Officer, Dr Len Curtis. She said: "I was hooked straight away! I've been working in the geospatial and remote sensing Industry for over 25 years now, most recently I was a founding director of EarthSense, a leader in accurate air quality monitoring, modelling and data. The company's solutions help decision makers understand the health and environmental impact of poor air quality across the planet through a combination of space and terrestrial technologies."

It was in this role that Donna was named a finalist of Innovate UK's Women In Innovation awards. The awards were launched when research undertaken in 2016 found that just 14% of applicants to Innovate UK funding competitions were from women, despite the fact that success rates between men and women were largely equal. Donna was chosen by Innovate UK to represent the UK leading female innovators in the Innovate UK and Getty Exhibition. As a result of the awards campaign, applications from women to Innovate UK's funding rose to 24% and the competition has run again this year.

Donna said "I would really recommend any women who want to get their innovation funded to apply to the next call. It is much more than just funding, the support and networking they can provide is worth more than the £50,000 award, although money is helpful to aid business development of course!"

CHRISTINE OURMIÈRES -WIDENER, FLYBE CEO

SETS OUT THE AIRLINE'S GENDER EQUALITY INITIATIVE, FLYSHE



INSIGHT MEETS THE UK'S ONLY FEMALE AIRLINE CHIEF EXECUTIVE, CHRISTINE OURMIÈRES-WIDENER.

Now eighteen months into her role at Flybe, Christine, recognising that skills shortages in the airline industry, has launched FlyShe. The initiative is designed to inspire young girls and women to consider a wide range of careers in the aviation industry, including piloting, engineering and leadership in a bid to both meet the challenge of forecast double digit growth and to increase the representation of women.

The programme aims to inspire by giving a platform to women working in the industry to talk about their work and experiences, while simultaneously encouraging young people, and their parents, to follow these real-life role models. Christine said: "Aviation is still very much a male-dominated industry. There are many reasons for this gender imbalance, but the main one is that the pipeline of female talent in engineering and piloting is simply not there."

Famously, Christine herself is the UK's only female airline CEO and came into the industry as an engineer. She merits her ambition on her parents' vision for her future. She said: "my mother was adamant that my sisters and I should be equipped to become financially

independent as soon as possible. It was unequivocal for her and something that I have passed down to my own children."

Today, a major part of Flybe's operation in Exeter is the Flybe Training Academy. The £13 million building, complete with simulator facilities for pilot and cabin crew training, opened in 2011. Working in close partnership with Exeter College, the most successful programme to come from the partnership is the four-year Flybe Diploma in Engineering which has been running since 2008 and which nearly 200 students have completed. Together the two organisations have also launched an Aircraft Maintenance Apprenticeship in September 2018, with Exeter College

delivering the theoretical elements and the Flybe maintenance department delivering the practical elements, all within the Training Academy.

Christine said: “we have an ambitious training plan at Flybe, and the Academy is an amazing tool and asset for training pilots and engineers. It is also open to local business to come and use - trying their hands at controlling the flight simulators as part of a team building exercise for example.”

Aware of the Flybe Group’s position as a key part of the region’s business and leisure offering and as major employer, the Flybe Group under Christine’s leadership would like to build closer relationships with businesses in the area, working together to improve the region’s infrastructure and transport links globally and nationally. Christine said: “we have brilliant relationships with the City, District and County Councils and the Science Park

centre: we need to continue to work together as a team to further improve the infrastructure – the roads, a rail connection, public transport options, faster internet connections – in order to compete more effectively with other regional airports and to offer the region the best service.”

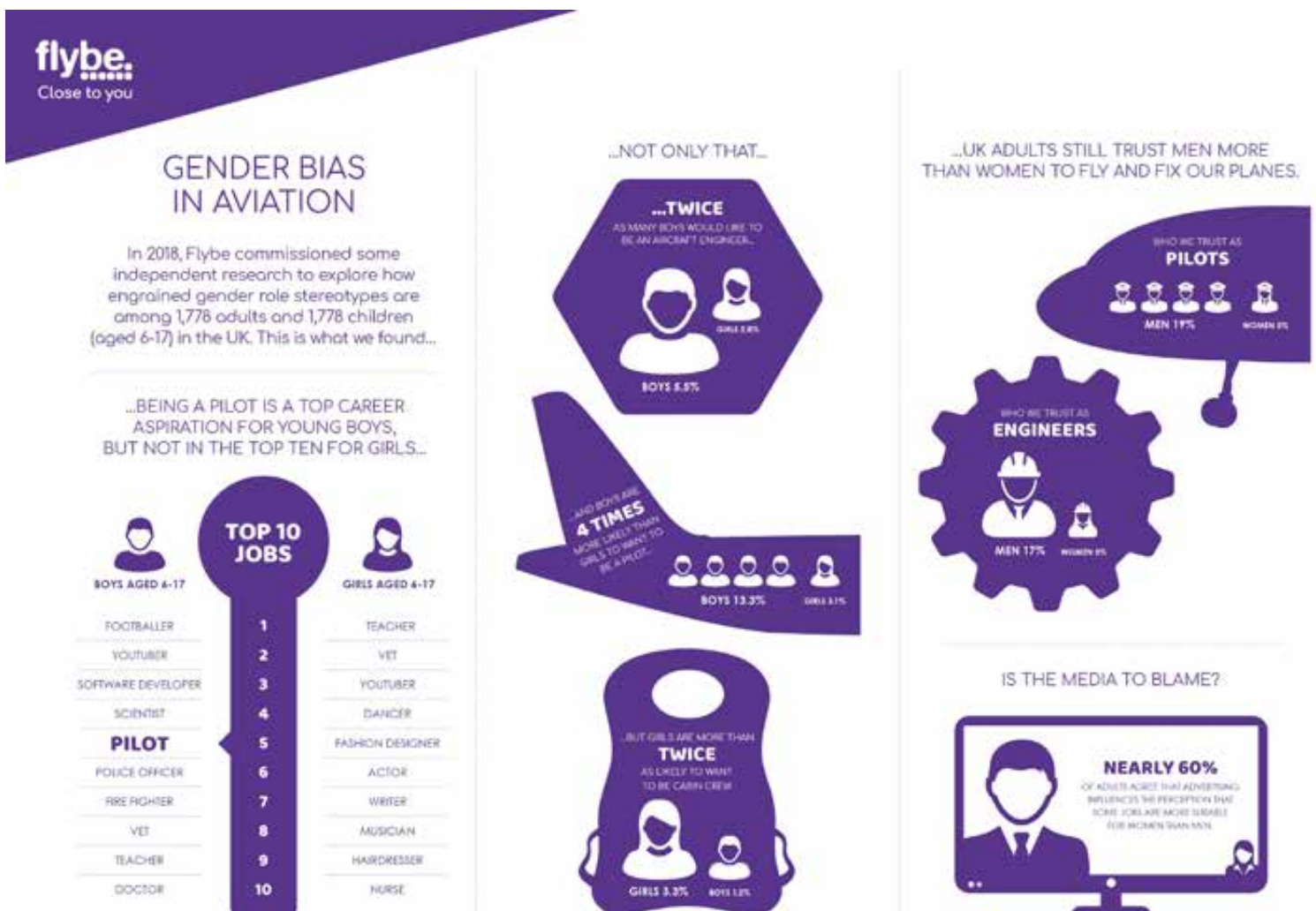
While the airline currently operates 204 routes serving 15 countries from 80 departure points, with 20 routes from Exeter, Christine sees growing Exeter’s profile as a destination as vital. “There is great opportunity to bring more people into the South West from all over the world, through Exeter International Airport. Exeter’s growing science and tech community is at the core of this, as are visitors, academics and students, heading for the University. In leisure, Exeter is the ideal destination for tourists looking to explore the South West and the rest of the UK. We need to work with the

private and public sector to maximise these opportunities.”

For the airline, the region and for young women, all over the world, Christine is ambitious, she explains: “Forty-one per cent of Flybe’s workforce is now female with women in every role from apprenticeship to the boardroom. Whilst the majority still comprises cabin crew, there are increasing numbers across all other areas of the business, including pilots and engineers.

“We cannot ignore the fact that the research indicates that nearly one in five girls believe there are jobs they cannot do and **I firmly believe that young women cannot be what they cannot see.** Through FlyShe, we are committed to showing women they can fly high – whatever it is they want to do.”

www.flyshe.co.uk
www.flybe.com



STEMM NEWS

BIG BANG FAIR SOUTH WEST FINDS NEW HOME AT WESTPOINT



The Big Bang Fair South West will take place on Tuesday 25 June 2019 at Westpoint Arena. Aiming to welcome over 6,000 young people, the fair will enable primary school, secondary school and home educated children to learn more about STEM careers through-out the day. The day-long event has a packed schedule, which will

include live science shows, interactive hands-on exhibits and activities showcasing the best science and tech businesses from across the region.

Working in partnership with a range of key stakeholders across the public and private sectors, event organiser, Charlie Molyneux of CSW said:

"I am thrilled to bring this prestigious regional celebration of Science, Technology, Engineering, and Maths (STEM) to a new venue for 2019. This large and flexible space will enhance the experience gained by young people and will increase the range of hands-on STEM related activities."

Alongside the shows and exhibits the event will also host the South West regional heat of the national Big Bang UK Young Scientists & Engineers competition, culminating in a glittering awards ceremony. The winners will represent the region at the National finals in March 2020 at the NEC Birmingham.

The Big Bang Fair South West provides a platform for STEM employers to engage with the next generation of engineers and scientists. For businesses that are interested in getting involved, please contact:

bigbang@cswgroup.co.uk

01392 215501

www.cswgroup.co.uk

GREAT WESTERN RAILWAY (GWR) MARKS FIRST ANNIVERSARY OF APPRENTICESHIP PARTNERSHIP WITH EXETER COLLEGE

Great Western Railway (GWR) and Exeter College are celebrating the first anniversary of their Apprenticeship Partnership.

If you are one of the millions of passengers travelling with Great Western Railway (GWR) between Penzance and London Paddington each year you may very well come across one of GWR's Apprentices studying with Exeter College, providing assistance with tickets, manning the gate line or serving on-board refreshments. Other Apprentices are working hard behind the scenes at GWR stations and depots, being guided to be the managers and engineers of the future.

Ofsted Outstanding Exeter College is the single source of Apprenticeship training for GWR. Under the programme, Apprentices across the South West, from Cornwall to Reading, are being trained as they earn.

Speaking about the success of the partnership, Joe Graham, Business Assurance Director, Great Western Railway (GWR), said: "GWR invests heavily in training for all staff, including our Apprentices. We expect our teams to deliver excellent customer service and, in return we expect this from our partners. Exeter College are an outstanding provider and it is an exciting development for us



to be partnered with them for our Apprenticeship training."

Rob Bosworth, Vice Principal at Exeter College said: "The opportunities that GWR affords its Apprentices are second to none. We are delighted to be partnered with them to deliver the new Passenger Transport Apprenticeships which will enable GWR apprentices to gain the knowledge, skills and behaviours required by the industry and meet the standards."

www.exe-coll.ac.uk

EMTEC TEAMS UP WITH THE IMPACT LAB TO HELP COMBAT CLIMATE CHANGE



An Exeter start-up company is working with regional and national experts on a project aiming to help cut CO₂ emissions in cities across the world.

Emtec has developed technology that is being used in a London-based pilot project with a fleet of 250 vehicles, measuring carbon dioxide emissions in order to help manage and ultimately reduce them.

Now Emtec has teamed up with The Environmental Futures & Big Data Impact Lab (Impact Lab) in Exeter to gather more data and scale up the project to a global level.

Working with the Impact Lab's technical specialists, Emtec aims to measure transport emissions more effectively, and produce valid economic rationale to support the next steps.

John White, Co-Founder of Emtec, explained: "Emtec combines cloud computing, connected car technologies and artificial intelligence to simplify all aspects of fleet operation and vehicle renewal planning.

"Initiatives across the world are aiming to reduce carbon emissions, which are a cause of climate change. Our technology accurately measures

emissions so we can then assess how effective these initiatives are.

"As we look to develop our technology further by monitoring more data sources, we needed access to additional data and data analysts to grow our products and services sustainably and accurately.

"The Impact Lab's project management and technical experts are the perfect partners to facilitate this and we're excited about where this collaboration will take the company."

Emtec's short-term ambition is to work directly with the Exeter City Futures Partner Network to explore how they can help local organisations and their fleet management to cut their emissions. Looking further ahead, there are 7,000 cities globally which have signed up to clean air projects, and Emtec would like to roll out their technology worldwide.

www.emteccorp.com
www.impactlab.org.uk

BUILDING GREATER EXETER LAUNCHES



The construction sector across Greater Exeter is set to benefit from additional support to help attract, retain and upskill its workforce.

Building Greater Exeter is a partnership which brings together the public and private sectors to help address anticipated labour and skills shortages in the industry.

It aims to inspire the future workforce through engaging with schools and young people, while supporting employers to fill vacancies through upskilling and reskilling.

Cllr Rachel Sutton, Exeter City Council's Lead Councillor for Economy and Culture, said: "Building Greater Exeter is a fantastic opportunity for the City Council to work with the construction sector to help meet their recruitment requirements.

"Through the project we will inspire new people into the sector and help to upskill those already in it. The sector is growing quickly and we are determined that, with the partners we already have on board, we can make a positive impact."

Across the South West the construction sector is booming.

The project team are incredibly grateful for the support and guidance provided by the Building Plymouth team during the set-up of Building Greater Exeter. The experience they have gathered over the past 3 years of running their successful programme has been invaluable, and we will continue working together to ensure consistency in supporting the construction sector across the South West.

Cllr Philip Skinner, Deputy Leader of East Devon District Council, said: "Greater Exeter is an area that is experiencing high levels of growth, and in order to continue this upward trend we must ensure that our construction firms have the ability to grow accordingly.

"The annual recruitment requirement in the South West is forecasted to be just under 4,500. At East Devon District Council, we are pleased to partner in the initiative and are looking forward to working with the private sector to deliver construction activity in the area."

www.buildinggreaterexeter.co.uk

UPCOMING EVENTS

TECH EXETER DIGITAL MEETUP

**Lightning talks, discussion
and techy chit-chat**

Thursday 6 December, 7pm
Exeter Phoenix

[www.meetup.com/techexeter/
events/255475395/](http://www.meetup.com/techexeter/events/255475395/)

CREATIVE ENTREPRENEURSHIP

PANEL SERIES: 2

**Creatives paving the way for new
technologies: How we own a place
in our digital future**

Thursday 6 December 2018, 4pm-6pm
The Deck, The Innovation Centre,
University of Exeter

[www.eventbrite.co.uk/e/creative-
entrepreneurship-panel-series-2-
tickets-50591704149](http://www.eventbrite.co.uk/e/creative-entrepreneurship-panel-series-2-tickets-50591704149)

SAVING LIVES AT SEA:

THE SCIENCE BEHIND THE SHOUT

**A family-friendly evening lecture from
IMECHE & University of Exeter**

Wednesday 12 December 2018, Arrival from
18:30, lecture from 19:00 - 20:00
Forum Alumni Auditorium, Streatham
Campus, University of Exeter

[www.eventbrite.co.uk/e/saving-lives-at-
sea-the-science-behind-the-shout-
tickets-50965641606](http://www.eventbrite.co.uk/e/saving-lives-at-sea-the-science-behind-the-shout-tickets-50965641606)

SOUTH WEST SPACE INNOVATION

**An opportunity for business, academics
and individuals to engage with the
rapidly growing UK Space industry**

Wednesday 23 January 2019, 9.30am-3pm
Environmental Futures
and Big Data Impact Lab

[www.eventbrite.co.uk/e/south-
west-space-innovation-event-
registration-52491825463](http://www.eventbrite.co.uk/e/south-west-space-innovation-event-registration-52491825463)

SAVE THE DATE:

EXIST QUARTERLY EVENT

**The positive impact of Science
and Technology on physical health,
activity and wellbeing.**

Thursday 31 January 2019,
8.30am-11.00am
Sandy Park

www.existexeter.co.uk

A focus on science, technology,
& innovation for the business community

VISIT WWW.EXISTEXETER.CO.UK/INSIGHT

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