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AN UPDATE FROM OUR CATERING TEAM

MTC TO TRAIN APPRENTICES IN ATOMIC ENERGY JOINT VENTURE

A HUB FOR NEXT-GEN INNOVATION
Summer is traditionally a busy time at the AMTC across all three of our business streams, and 2019 has been no different.

We started the year with major investment in the Sir Williams Siemens Theatre, the AMTC’s 250-seat lecture theatre, which has undergone significant refurbishment to make it one of the most technologically advanced conference venues in the region.

MTC’s events division also recently announced another positive 12 months of growth since launching in 2015. This achievement is hugely significant, with every penny being re-invested back into our apprenticeship programme.

Similarly, our apprenticeship programme has experienced another consecutive year of growth, with over 120 learners now at the AMTC – a 40% increase on last year and with a record number of female apprentices – and we’re on track to reach our target of 300 apprentices in learning by 2020.

We were also delighted to confirm an extension to our partnership with Lloyds Bank, who have pledged a further £5 million to the AMTC in support of training future apprentices and addressing the skills shortage that faces our sector.

The growing reputation of the MTC apprenticeship programme means we’re seeing more young people apply every year and this is matched by the increasing demand from employers who recognise the enormous value that skilled young engineers can bring to their businesses.

Equally, our commercial training offering continues to strengthen, with more courses developed to address the skills needed not only now, but to support the innovations and technologies of the future that are driving our industry forward.

We have also redefined our Additive Manufacturing (AM) competency framework, which defines the skills, knowledge and behaviours that are needed to operate AM roles now and in the future. This is a significant development, in what is one of the fastest growing advanced manufacturing technologies in industry. We will use this to underpin our training course content as our course portfolio continues to grow.

One of the most exciting projects that we’re currently involved in is the launch of the Oxfordshire Advanced Skills (OAS) training programme. In partnership with the UK Atomic Energy Authority (UKAEA), the new initiative aims to increase the number of trained technicians available to employers in the Oxfordshire region.

Work is well underway on the new academy, which is set to open in September 2019. It will welcome 350 apprentices every year, with the MTC delivering training to develop the essential skills needed to support the growth of the local economy.

Last but certainly by no means least, I want to give a deserving mention to our Training Operations Manager Martin Dury, who took part in the London Marathon in April. Martin ran the 26.2 miles to raise money for Nottingham University’s Children’s Brain Tumour Research Centre, who are providing ground-breaking treatment for Martin’s niece Poppy, who was sadly diagnosed with a brain tumour in 2017.

By his own admission Martin’s not a natural runner; just two years ago he couldn’t run as far as 50m! But in that time, he’s since completed a half marathon for the Teenage Cancer Trust and went on to run double the distance last month for another very worthy cause.

So, on behalf of everyone at the MTC, congratulations to Martin on this great achievement and the fantastic amount of money raised.

If you would like to show your support to Martin, you can do so by donating online at uk.virginmoneygiving.com/martin-dury. More information about the charity can be found at www.cbritc.org.
Lloyds Bank will invest a further £5 million to fund its sponsorship of the industry-leading Advanced Manufacturing Training Centre (AMTC). The funding doubles the bank’s original commitment, bringing the total funding to £10 million over 10 years.

The extra funding will support around 3,500 apprentices, graduates and engineers by 2024, providing them with the right skills to be at the forefront of manufacturing in the future.

The funds will contribute to a 350% increase in the original target for training apprentices and support the AMTC’s commitment to addressing the skills shortage – one of the biggest challenges facing the manufacturing sector.

Established in 2015, the Lloyds Bank Advanced Manufacturing Training Centre is a state-of-the-art training centre designed to create a new generation of engineers and technicians, equipped with the advanced manufacturing skills of the future.

Lloyds Bank has been actively working with the MTC to promote the manufacturing sector and highlight the range of skills required. In addition, the bank actively supports clients in their drive to diversify their workforce to address the skills gap as part of its ‘Helping Britain Prosper Plan’.

Former Business Secretary Greg Clark welcomed the announcement: “The development of skills and apprenticeships, particularly in engineering, is crucial to the success of the UK’s Industrial Strategy.

This training centre, with its focus on technical education in advanced manufacturing technologies, from apprenticeships through to technician and engineering up-skilling, helps manufacturers gain a competitive advantage, improve productivity and ensure high skilled well-paying jobs.”
On Lloyds Bank’s commitment to manufacturing and its ongoing support of the AMTC, MTC Chief Executive, Dr Clive Hickman commented: “The training centre is developing vital skills which are seeding industry in the region and far beyond, bringing on the next generation of manufacturing engineers and technicians. During their time at the AMTC they work on real projects and gain invaluable skills needed by UK manufacturing industry.

“Since the AMTC was established, hundreds of apprentices and engineers have been trained and up-skilled, and are now working in the aerospace, automotive, defence, medical and process industries, filling vital roles.”

Antonio Horta-Osorio, Chief Executive of Lloyds Banking Group said: “Our extended sponsorship will see industry benefit from three and a half thousand apprentices, graduates and engineers being trained and developing new skills. This will help address the biggest challenge that manufacturers consistently tell us about – the shortage of skills.

“The apprentices and skilled engineers who emerge from these world class training facilities play a central role in helping to drive up the productivity of the nation. They will be part of broader efforts to rebalance our economy - a more dynamic, open economy that is backed up by long term investment in infrastructure, skills, science and the latest technology.”

“"This training centre helps manufacturers gain a competitive advantage, improve productivity and ensure high skilled well-paying jobs."
The Manufacturing Technology Centre has joined an alliance of experts which has been awarded leadership of a new national hub to drive innovation and technological advances in the construction and infrastructure sectors.
"The complementary skills of the MTC and the Construction Innovation Hub partners, BRE and CDBB, will ensure we deliver for industry and Government."

NEIL RAWLINSON
STRATEGIC DEVELOPMENT DIRECTOR, MTC

Following a nationwide competition, UK Research and Innovation, through the Industrial Strategy Challenge Fund, awarded £72 million to fund the Construction Innovation Hub, a key element of the Transforming Construction challenge programme.

The Hub brings together the specialist expertise of the MTC, BRE (Building Research Establishment), and the University of Cambridge Centre for Digital Built Britain (CDBB).

The Construction Innovation Hub will be the catalyst to transform the way buildings are designed, manufactured, integrated and connected within the built environment. It will also support collaboration to develop and commercialise digital and manufacturing technologies for the construction sector.

Keith Waller, appointed as Programme Director for the Hub, said: "I am delighted to be leading the Construction Innovation Hub in its mission to boost productivity and performance in the sector. I look forward to working alongside government, industry and the teams at the MTC, BRE and CDBB to realise the vision of a transformed sector."

On MTC’s proven track record of supporting manufacturing across a range of sectors, Neil Rawlinson, Strategic Development Director at the MTC, said: “There is huge potential for transformation of large parts of the construction sector to a manufacturing industry and a widespread appetite for change which makes us enormously excited to play a pivotal role.

“The MTC brings several key capabilities to the hub, such as design and simulation, and process and manufacturing systems development, including automation and visualisation. The complementary skills of the Construction Innovation Hub partners will ensure we deliver for industry and Government.”

On BRE’s role in the project, Martin Ganley, BRE Director, said: “BRE is one of the world’s leading independent knowledge centres in construction testing and performance standards for the built environment. It will provide expertise in the testing and validation of new products, processes, data and assets, and will support the move to digitising construction.

“It will also provide a leading role in industry engagement and the deployment of demonstrators at the BRE site in Watford.”

Professor Andy Neely, Pro-Vice Chancellor for Enterprise and Business Relations at the University of Cambridge and director of the Centre for Digital Built Britain, on the timely alliance said: “The Construction Innovation Hub brings together three trusted organisations with strong research, development and engagement programmes to deliver the evidence base and value case for change, alongside those who will benefit most from it.

“CDBB will collaborate widely to deliver a digital programme that will create the framework to underpin the future built environment and grow export opportunities for the UK.”

The Industrial Strategy Challenge Fund will strengthen research and innovation in science and business in the UK. Its Transforming Construction challenge programme aims to support £500 billion worth of infrastructure and construction projects over the next decade, creating new processes and techniques including standardisation of modular components for manufacture.
We head into Summer following another busy period for MTC Events, which puts us on target to maintain the year-on-year growth we’ve reached since launching in 2015.

At the beginning of the year, MTC Events announced a turnover of more than £2.6 million in just three years; a huge achievement for the team and one that remains incredibly significant, as every penny is re-invested back into the MTC’s pioneering apprenticeship programme.

Engagement with our 109 members continues to grow and in the last 12 months, we’ve welcomed more than 40,000 people to the MTC from the high value manufacturing sector – many of whom are from MTC member organisations and their supply chains.

But we’re always looking at ways to improve and enhance our offering, and we’re introducing a number of new developments to ensure we continue to deliver a first-class experience for all our visitors.

The MTC Events team is expanding and over recent weeks, we’ve made the decision to bring together marketing, events and membership personnel into one, fully integrated team.

This means closer collaboration, more streamlined work processes and improved communications, resulting in more effective delivery for our clients.

From the moment a booking is made to the day of an event, almost all our customers will come into contact with a representative from some, if not all, of the units that make up MTC Events; from Sales to Marketing, from Operations to Delivery, the success of our business is based on our ability to deliver to a client’s requirements. So, by bringing these departments together in a more formalised way internally, we aim to further support and enhance the experience for our customers and their visitors.

Following feedback from our members, we have worked through a series of major upgrades in the Sir William Siemens Theatre to make it one of the most technologically advanced conference venues in the region. Please visit page 16 to read more about the conference theatre upgrade.

As technology will continue to evolve and advance and we strive to be at the forefront of innovation across all our business streams, it’s imperative that our facilities stay up-to-date to reflect this.

So as we enter an incredibly busy time for MTC Events, developments will continue behind-the-scenes as well as across the AMTC, and we remain ever-focused on making an already great events experience even better for our visitors.

"We’re always looking at ways to improve and enhance our offering, and we’re introducing a number of new developments to ensure we continue to deliver a first-class experience for all our visitors."
MTC group marketing director Richard Watkins said the improvements will make the MTC one of the premier venues in the Coventry and Warwickshire region for conferences and events.

The facility is run by the MTC’s freestanding events division - MTC Events - which turns over in excess of £1.6 million each year, returning all profits back into the pioneering manufacturing apprenticeship programmes at the Advanced Manufacturing Training Centre.

MTC Events has seen significant growth over the last twelve months, and has hosted events for major manufacturers and business organisations covering the manufacturing, aerospace and construction sectors and supply chains.

“The refurbishment involves the ultimate in conference technology and connectivity to future-proof the facility for years to come. With our technical partners we are creating a facility for the region to be proud of.”

Richard Watkins  
Group Marketing Director
This year we’re making digital a reality with a two-day conference that will give you the opportunity to get the information you need from worldwide leading experts in digital manufacturing.

Day One

Key topics:
- Progress
- Made Smarter and other initiatives
- National and international perspectives
- The industry perspective

What’s on:
- Keynote speeches
- International expert panels
- Networking reception

Day Two

Key topics
- Smart factory
- Supply chain configuration
- Digital value creation
- Adaptability and work environment

What’s on:
- Keynote speeches
- Expert speakers
- Breakout workshop sessions
- Roundtables
- Innovation pitches
- MTC’s Digital Experience

Register today: www.the-mtc.org/digital2019
Summer is always a busy time for MTC Apprenticeships, our autumn cohort has settled into life at the Advanced Manufacturing Training Centre and we’re in the swing of looking for the next batch of young minds to mould.

Our 2018 intake of 84 first-year apprentices join our second years to bring our learner total to more than 120, 40 per cent more than 12 months ago, and a fantastic step forwards for our Apprenticeship Programme.

We have also welcomed the highest number of female learners since the programme began in 2014, with 11 female apprentices enrolled from September; a positive sign and testament to the work of the MTC Apprenticeships team in boosting engagement through recruitment events and school and college visits.

But we’re not stopping there. Earlier this year we set a target to more than treble our apprentice intake over the next two years, with the aim of training 300 apprentices every year by 2020.

As part of this, we are expanding our Employer Partner initiative, which provides placement opportunities for MTC apprentices during their second and third year of study.

The MTC is offering manufacturers the chance to use their Apprenticeship Levy to fund engineering apprentices who will get training in product design and development, including the latest emerging manufacturing technologies.

As an Employer Partner of the MTC, your organisation will directly benefit from the industry-leading training, comprehensive study programme and access to state-of-the-art facilities that every one of our learners receives on our Advanced Manufacturing Apprenticeship Programme.

Whether you are a levy-paying or non-levy paying organisation, we will work with you to select the best candidate to meet your requirements and provide you with someone who already has industry-relevant skills and experience, so that they can have a positive impact on your business from the start.

Please get in touch with the MTC Apprenticeships team if you’d like to discuss joining our Employer Partner scheme.

02476 701 554
employers@the-mtc.org

"Summer is always a busy time for MTC Apprenticeships, our autumn cohort has settled into life at the Advanced Manufacturing Training Centre and we’re in the swing of looking for the next batch of young minds to mould."
Paul is one of a number of MTC staff currently enrolled on the MBA Degree Apprenticeship Programme. Here he gives his insight into the course and his reasons behind choosing to study with Aston University…

WHY DID YOU DECIDE TO STUDY AN MBA?

I’m hoping to develop my own personal capabilities to learn new things - every day is a school day so it’s a great way to more formally develop my education so I can use some of these new skills in my day job. I also studied for my first degree at Aston University (a long time ago!) and had nothing but a great experience there. The business school also has a fantastic reputation, so it was a natural choice for me.

HOW ARE YOU MANAGING TO BALANCE WORK AND STUDY?

Balancing work and study isn’t easy to start with, but it’s a skill you develop and over time, I’ve been able to compartmentalise what I need to do. As part of the qualification requirement we need to spend 20% of our time on the apprenticeship, so I have to make that part of my working week and ensure I block out sufficient time. That does include at-home study in my own time and I can also use the facilities at Aston University too.

WHAT HAS BEEN THE HIGHLIGHT OF YOUR APPRENTICESHIP SO FAR?

One of the things that I’ve found most interesting so far is working with so many people across many different industries and commerce. It’s quite a big cohort, about 75 of us, so it’s wonderful working with people you wouldn’t normally work with and I’m really getting a lot from that.

WHAT ADVICE WOULD YOU GIVE TO SOMEONE CONSIDERING APPLYING FOR AN MBA?

Anyone who has the opportunity to study for an MBA, and can dedicate the time and effort required, will get a lot out of the experience. There’s a group of us at MTC studying for this qualification and whilst it’s challenging, we’re all finding that it’s really adding value to our job roles and responsibilities and everyone is enjoying the learning.
ALL COURSE PRICES ARE PLUS VAT

To discuss how an MTC apprentice can support your business, please contact Colin Bancroft, Employer Placement Leader using colin.bancroft@the-mtc.org or call 02476 701 554

Advanced Manufacturing Training Centre, Ansty Business Park, Coventry, CV7 9JU

BOOST YOUR BUSINESS TODAY
with an MTC business-ready Engineering Apprentice

ARE YOU CURRENTLY SEARCHING FOR ENGINEERING APPRENTICES TO DEPLOY INTO YOUR BUSINESS? THEN STOP YOUR SEARCH!

To discuss how an MTC apprentice can support your business, please contact Colin Bancroft, Employer Placement Leader using colin.bancroft@the-mtc.org or call 02476 701 554

Advanced Manufacturing Training Centre, Ansty Business Park, Coventry, CV7 9JU
I’ve learnt many things while at the AMTC due to the amazing facilities they have to offer. I’ve enjoyed every minute, especially learning how to programme and operate the different robots that we have onsite.

Callum Wilcock

“I’ve learnt so many new things, but my main interest is in CNC. I enjoy problem solving and undertaking practical work. The process of designing, building and testing products interests me and is something I enjoy. I used time in my CNC course to design, programme and machine my own parts.”

Sam Smith

“The opportunities are endless. I have been able to explore different areas in engineering, allowing me to be able to choose which area I want to go into. I have received such great support from the trainers and the other apprentices.”

Melissa Chiqubu

To discuss how an MTC apprentice can support your business, please contact Colin Bancroft, Employer Placement Leader using colin.bancroft@the-mtc.org or call 02476 701 554.
2018 was an exciting year for MTC Training. The addition of more courses to our portfolio created an inevitable increase in engagement with our training, as the adoption of advanced manufacturing technologies continues.

We welcomed delegates from across the UK and Europe, from areas including business, academia, aerospace and military research, and engagement with our courses looks set to continue to grow.

This success is a testament to our committed team who create highly engaging and educational courses which are not only relevant to the emerging skills requirements of today, but are also constantly evolving to meet the needs of the future.

In 2019 we are continuing to work with an increasing number of clients who understand that the return on their investment in new technologies can only be maximised by ensuring that their staff have the necessary skills to fully exploit these new technologies.

These include organisations of all sizes and sectors, and an increasing cross-section of staff, including those who need technical skills, and also those who simply need a broader understanding of the technology their business is adopting.

Throughout the next year we will continue to increase our training course offering, adding additive manufacturing curricula, providing end-to-end qualification paths for upskilling engineers in this rapidly growing technology. These new courses are being created in response to identified skills needs through our competency framework approach.

We are also currently working with the CPD Certification Service to accredit both our existing and future courses. This will allow delegates to not only receive a certificate from MTC Training, but also a certificate which allows them to count their attendance towards a programme of continuous professional development, which to many is a valuable demonstration of commitment to furthering their skills, and often valuable in the renewal of professional memberships.

“Our courses are not only relevant to the emerging skills requirements of today, but are also constantly evolving to meet the needs of the future.”
MTC TO TRAIN APPRENTICES IN ATOMIC ENERGY JOINT VENTURE

MTC has teamed up with the UK Atomic Energy Authority (UKAEA) to train hundreds of apprentices in a new training academy in Oxfordshire.

UKAEA has partnered with the Science and Technology Facilities Council to form the Oxfordshire Advanced Skills (OAS) training programme, which aims to increase the number of trained technicians available to local employers in one of the UK’s high-tech hotspots.

Work has already begun on the new training academy at UKAEA’s Culham Science Centre site near Abingdon, which will provide 350 apprentices a year with essential technical skills to support the growth of the local economy.

MTC will deliver the training at the new facility to replicate that of its industry-leading Advanced Manufacturing Training Centre (AMTC), which, since opening in 2015, has rapidly built a reputation for equipping apprentices with the core engineering skills and the latest advanced manufacturing techniques.

The training academy will open in September 2019, equipped with industry-standard equipment covering a wide range of engineering and technology disciplines.
Paul Rowlett, Managing Director of the Advanced Manufacturing Training Centre, said: “Having an insight into tomorrow’s technology gives us the ability to create training programmes and apprenticeships to equip industry with a capable workforce.

“We are delighted to be working with UKAEA to deliver the OAS training programme as there is a clear synergy and shared vision across both organisations.”

David Martin, UKAEA’s Chief Operating Officer said: “Oxfordshire is one of Europe’s biggest areas for science and technology, with 10,000 people employed in these industries – four times the national average. We can only sustain this success if we have more skilled young people coming through and the OAS programme is a vital part of this skills pipeline.

“In the AMTC we are partnering with one of the UK’s most forward-thinking training organisations. They will give our apprentices access to new technologies and ways of working, ready for the hi-tech industries of the future.”

"We are delighted to be working with UKAEA to deliver the OAS training programme as there is a clear synergy and shared vision across both organisations."

PAUL ROWLETT
MANAGING DIRECTOR, THE AMTC

To discuss how an OAS apprentice can support your business, please contact OAS, using oasphase2@the-mtc.org
A hub for next-gen innovation

MTC EMPLOYER PARTNER MEGGITT TO OPEN NEW £130M ANSTY PARK FACILITY
MTC Employer Partner Meggitt, the international aerospace, defence and energy engineering group, is set to open its new manufacturing and office facility at Ansty Park later this year.

The relocation will see the engineering giant move to just minutes from the MTC, who continue to support Meggitt’s Corporate Apprenticeship Programme. MTC will also support Meggitt with graduate training via MTC Training in November.

Last year’s launch ceremony was attended by MTC Chief Executive Clive Hickman, MTC apprentices, and Andy Street, Mayor of the West Midlands, who has previously visited the MTC earlier to discuss how the organisation continues to support local businesses.

Meggitt PLC is a global engineering group that specialises in extreme environment components and smart sub-systems for the aerospace, defence and energy markets. With 11,000 employees worldwide, the new ‘super site’ at Ansty Park is part of a £130 million investment as the company looks for it to become a hub for next-generation aerospace innovation and R&D.

Meggitt Chief Executive Tony Wood said on the launch of the new site: “The Ansty Park ‘super site’ is hugely exciting for our new apprenticeship programme. We are giving talented, young engineers the opportunity to develop in a world-class manufacturing environment where they will make a difference to the organisation and its reputation internationally.”

Matthew Bastock, Apprentice Programme Manager at the MTC, said: “This is an exciting time for MTC Apprenticeships and our partnership with Meggitt. The first cohort of students will build their skills and expertise across the organisation’s many operations and gain vital insight into the workings of a global engineering group.

Meggitt’s commitment to the future of aerospace innovation and R&D underpinned by the investment into the new facility here at Ansty Park, will continue to provide opportunities for young engineers and we are proud to partner with them.”
Catalyst has previously showcased the capability of our Events team supporting our high-end manufacturing clients in hosting events that nurture working partnerships, knowledge dissemination, networking and other opportunities.

Our continued commitment to enhance our visitor experience through investment and development of our fully managed service solutions has yet again enabled us to report increased footfall over the past 12 months, and the MTC Events function is a force in its own right, bringing technologies and manufacturing organisations together.

As well as stunning buildings, landscape and technology, our food & beverage provision is one of our biggest reputational drivers. We continue to see increased client retention which has been endorsed further through the demand for our expanded catering offering which is delivered off-site to organisations such as DMG Mori, FANUC and AVL.

We recognise that great food and service brings people together, and we aim to support the care our clients have for their employees, customers, suppliers and other business relationships.

Ian Wallace and his team of heavyweight professionals, all of whom have a background in fine dining restaurants, boutique hotels and exclusive contract caterers, drive the same innovation, development and solutions as our engineers and technologists do in their own field.

The MTC is based on a culture that together, we impact society through what we do. We support local businesses within our supply chain, which keeps the road miles down to a minimum and spending locally creates and maintains jobs within the communities we live in. In our suppliers we share an award-winning butcher with the Royal Household, originally opened in a back-street Coventry shop in 1933. We buy our fruit & veg from an independent supplier based in Leamington Spa and our fish comes direct from the coast. We even have a Warwickshire-based coffee roaster who supplies our very own unique MTC blend.

We invite our customers to work with us to deliver culinary experiences regardless of the occasion and in addition to our highly rated conference day delegate packages, we can offer a fine dining experience that can rival any boutique hotel and restaurant in or outside of London.
The Additive Manufacturing (AM) curriculum at the MTC continues to expand to support the growing industry requirements. As the National Centre for Additive Manufacturing (NCAM), the MTC supports the effective exploitation of current and emerging AM processes by bridging the gap between market requirements and process reality.

MTC launched ten new courses in early 2019 with the significant advancement of the fastest growing metal forming technology, which is being delivered via a variety of methods including online learning, face-to-face and virtual classroom. The choice of delivery methods makes training courses at the MTC more accessible, providing greater flexibility to learners and increased opportunities for education and development in one of the industry’s fastest growing sectors.

NEW AM COURSES LAUNCHING SUMMER 2019:

**ONLINE LEARNING**
- Best practice in AM process selection
- Design rules for Laser Powder Bed Fusion
- Design rules for Electron Beam Powder Bed Fusion
- Guidelines for Business Justification for AM Adoption

**FACE TO FACE**
- Best practice in AM process selection
- A Full Practical Insight into AM - Directed Energy Deposition
- A Full Practical Insight into AM - Powder Bed Fusion – Polymer
- Best Practice for Business Justification for AM Adoption

**VIRTUAL CLASSROOM**
- Design rules for Laser Powder Bed Fusion
- Design rules for Electron Beam Powder Bed Fusion

VISIT THE-AMTC.CO.UK/TRAINING FOR MORE INFORMATION AND TO REGISTER YOUR INTEREST IN ENROLLING ONTO ONE OF THE COURSES.