



END OF YEAR NEWSLETTER

A WORD FROM THE AMTCE

With the Christmas season almost upon us it has been a fantastic year in development of the Centre and delivering on its mission to upskilling the Irish Manufacturing workforce. The Centre has evolved over the year into supporting other sectors of the economy such as construction. We continue to accelerate our talent pipeline generation activities with the launch of two new Industrial systems maintenance technician traineeships in October to complement our Cybersecurity apprenticeship which started in the middle of the year. Planning for the next intakes in 2023 on these programmes is already well advanced.

We recently had the pleasure of hosting Minister Harris in the Centre to announce a hugely significant investment which will allow us to carry out a major refurbishment of the Centre to create a truly world class training facility where people will be inspired to learn in. It is a fantastic milestone for the AMTCE, our partners and most importantly our client companies and learners. With 2023 just around the corner the AMTCE team are busily preparing a fantastic training offering which which continues to evolve in response to your feedback on your needs. We also look forward to inviting you to visit the Centre when it is fully completed or attending a training course or both in 2023! We thank you for your support in 2022 which has been reflected in a fourfold increase in our training provision. The AMTCE team looks forward to engaging with you in 2023 and seeing you on one of our

Michael J Mi Grath Michael J McGrath AMTCE Technical Director

courses!

€11 million Government investment for the AMTCE



There was a big turnout for Mr Simon Harris TD, Minister for Further and Higher Education, Research, Innovation and Science on Thursday the 17th November 2022, at which he announced an €11 million investment in the Centre. It represents the largest single capital investment in further education since the establishment of his department.

The latest round of investment will be used to complete renovations, carry out external works, extend the centre and to buy cutting-edge equipment, systems and software. It will ensure that Ireland can compete internationally in Industry 4.0, the future of manufacturing worldwide.

Commenting on the news, Martin O'Brien, chief executive of LMETB and founder of AMTCE, said "We're delighted that the crucial role of the AMTCE has

been recognised at the highest levels of government. The investment by the Department of Higher Education, Research, Innovation and Science through SOLAS is proof of the importance of such a facility to the future of crucial sectors of the Irish economy. It will deliver the necessary training to underpin the transition of Irish companies to Industry 4.0 operations, leading to rewarding careers in advanced manufacturing and many other

Manufacturing's contribution to the economy accounts for 275,000 direct jobs and supports a further 135,000 indirect jobs and over a third of Ireland's annual GDP. 85% of those jobs are located outside Dublin, highlighting the importance of manufacturing for rural areas across the country.

sectors.'

"We are also currently exploring

Minister Harris said

"The Advanced Manufacturing Training Centre of Excellence has been extremely successful in re-skilling and up-skilling students to use the new emerging technologies, as well as enabling them to develop new careers in advanced manufacturing through apprenticeships and traineeships. It has created partnerships with DKIT and across county borders with Cavan and Monaghan ETB. Today, we are confirming we will be spending €11 million to expand the work underway there."

other major projects like the development of Cyber Security and Sustainability and Green Skills Centres of Excellence. All these initiatives will be established in close collaboration with national and international partners. LMETB

has signed several Memoranda of Understandings (MOUs) with key players and these MOUs will form the basis for our continued expansion and reach across the EU and into the US" continued O'Brien.



LMETB LAUNCHES THE ADVANCED **MANUFACTURING PATHWAYS** SCHOOLS PROJECT FOR LMETB POST PRIMARY SCHOOLS

On Thursday the 20th October 2022, Minister Heather Humphreys, TD, Minister for Social Protection and Rural and Community Development launched the LMETB AMTCE FET Advanced Manufacturing Pathways Schools Project for LMETB Post Primary Schools for the 2022/2023 Academic Year in the AMTCE, Dundalk.

The AMTCE FET Advanced Manufacturing Pathways Schools Project forms an intrinsic part of LMETB's vision for training the next generation of students. The project which is a collaboration between the FET and Schools Directorates in LMETB is being offered as part of the FET structured Pathways and Transitioning opportunities for students and learners to participate in and experience FET.

Manufacturing Pathways Schools Project programme includes a combination of activities including visits in to the school, visits out to the AMTCE and other research centres, brainstorming sessions with groups of students, idea generation, concept and prototype development and practical workshops.

Through engagement with the project, the programme's project challenge introduces students and teachers to realworld applications of STEM and

The aim is to inspire students to consider high-skilled STEM careers, and to broaden teachers' views of the careers on offer.

The AMTCE Further Education and Training (FET) Advanced

technologies used in advanced manufacturing, enabling both teachers and students to learn new skills that allow them to better contextualise what is taught in schools with the requirements of the modern workplace.

Students also have opportunities to interact with engineers from diverse backgrounds, highlighting potential career paths available to them in all areas of STEM, whilst teachers also have the opportunity to upskill in design software and

3D printing technologies. The project incorporates the latest technologies such as Virtual Reality (VR), Augmented Reality (AR) and Robotics and as part of the programme there is also a focus on the importance of cyber

security and related skills.

The project which was piloted in four LMETB Post Primary schools in the last academic year is now being rolled out across all LMETB Post Primary Schools for the 2022/2023 academic year as part of the Transition Year

Programme.

Information on the programme is available by emailing fclinton@ Imetb.ie further information on the AMTCE is available on www. <u>amtce.ie</u>

SEE IMAGES FROM THE EVENT



MENTORS WORK "GROW YOUR OWN"-THE GREAT TALENT RETHINK

The AMTCE collaborated with the Small Firms Association (SFA) and Irish Manufacturing and Research (IMR) hosting a joint "Grow Your Own" webinar in October. Those attending learnt about some of the supports that are available to make this

If you missed us you can catch up here on this link and read more below.

Data from reports released by MentorsWork reveal that employees are more likely to stay with their employers if they are offered more high-quality learning opportunities. Also, employers that adopt a 'Grow Your Own' philosophy gain a variety of benefits while negating some of the risks associated with an outward only view on talent

Growing your own talent has many business benefits and helps avoid the risks associated with new hires, for example: development opportunities is

key to retaining talent within a business and consequently enabling the future success of that business.

• Drawing from your existing resources provides you with a head start on understanding what you are getting across the various attributes which matter including technical aptitude, soft skills, and to target skills development

at an individual level, and to amplify that investment by increasing the likelihood of accruing tangible benefits to the business. • New hires require a significant

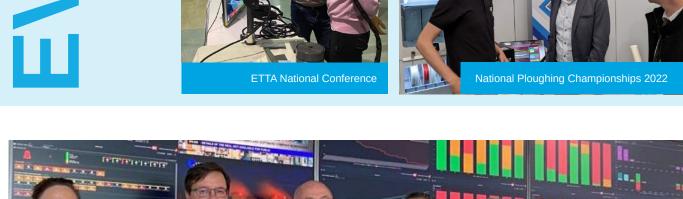
ramp up phase involving company specific training cultural alignment etc. which often results in a performance lag and impact on the business.

roles such as data analytics, engineering operations etc.



We were delighted to be involved with Irish Manufacturing Research, who in association with Precision Turning Manufacturing Association (PTMA), hosted a precision engineering event on their Mullingar site in September. Showcasing through the afternoon were live equipment demonstrations and technology overviews provided by IMR's industry partners, together with details on the AMTCE's CNC training offerings.







CYBERSECURITY - ESTONIA

As the shortage in Cyber Skills continues to grow globally, the size and the scale here in Ireland is estimated as being 10,000 current vacancies nationally, across all sectors

The AMTCE recognises the significance of this problem and is working to contribute to the solution through the provision of industry relevant trainings and talent pipeline generation. Earlier this year we launched our first Cyber security apprenticeship programme with a second iteration planned for 2023.

In November we were delighted to run our new Cyber security awareness training courses for employees under the Skills to Advance funding policy, and this offering will continue to grow to meet the industry needs over the coming months.

Earlier this year, the team in the AMTCE had the privilege to meet with our Estonian colleagues in person, to view first hand the

impressive and innovative training related projects they are working on. Many thanks to Senator Gerard Craughwell



and Estonian Ambassador Kairi Künka, for facilitating the trip. We would also like to recognise the hospitality and openess of our Estonian hosts to include CR14,

NATO Cooperative Cyber Defence Centre of Excellence (CCDCOE), CybExer Technologies, the e-Estonia Briefing center Taltech



The AMTCE team would like to extend its thanks and gratitude to all our learners, companies, trainers and collaborating partners who have engaged with the center over the course of 2022 and making it such a successful year. To view our courses for 2023 click here: https://amtce.mykademy.com/

BROWSE OR REGISTER FOR ALL UPCOMING COURSES

A SELECTION OF UPCOMING COURSES

CNC TRAINING

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- **CNC MILLING COURSE CONTROLLER BASIC 3 AXIS (X,Y & Z) MILLING**
- HANDS-ON MILLING OPERATOR TO SETTER
- **TURNING CAXIS & YAXIS MILLING FANUC**
- FANUC CUSTOM MACRO B

TECHNIQUES, OPERATIONS AND PROCESSES FOR PHARMA, FOOD AND BIO SECTOR

- UPCOMING COURSES
- INTRODUCTION TO CGMP FOR THE (BIO) PHARMACEUTICAL INDUSTRY
- **TECHNICAL WRITING**
- **ADVANCED TECHNICAL WRITING**
- CLINICAL TRIALS FOR THE PHARMACEUTICAL SECTOR
- INTRODUCTION TO VALIDATION FOR THE PHARMACEUTICAL INDUSTRY

MODERN METHODS OF CONSTRUCTION TRAINING

- **INTRODUCTION TO 3D CONCRETE PRINTING**
- INTRODUCTION TO BIM MANAGEMENT
- **DRONE TECHNOLOGY & PHOTOGRAMMETRY**
- **ENERGY MANAGEMENT**
- **BLOCKCHAIN FOR HEALTH AND SAFETY**

UPCOMING COURSES

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UPCOMING COURSES

INDUSTRIAL SYSTEMS, PROCESSES AND CONTROLS

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- INDUSTRIAL ELECTRICAL SYSTEMS
- **DIGITAL SENSORS**
- ELECTRICAL SYSTEMS TROUBLESHOOTING

ROBOTIC TRAINING

- INTRODUCTION TO ROBOTIC WELDING
- INTRODUCTION TO ROBOTICS ENTRY LEVEL
- INTRODUCTION TO ROBOTICS ADVANCED

CYBER SKILLS TRAINING

CYBER AWARENESS

GETTING STARTED IN IT

OPTIMISATION OF MANUFACTURING PROCESSES & OPERATIONS FOR INDUSTRY 4.0

- **INTRODUCTION TO LEAN**
- SIX SIGMA YELLOW BELT
- INTRODUCTION TO ROBOTICS ADVANCED

BROWSE OR REGISTER FOR ALL UPCOMING COURSES

Skills To Advance Funded Training

A Special Thanks To Our Partners



Rialtas na hÉireann Government of Ireland









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