



GLEAM
NETWORK

GLEAM presents

Manufacturing a Skilled Workforce

Thursday 14th March 2024

IOM3 - Grantham

Delivered by



BRIDGE

Greater
Lincolnshire

Business
Lincolnshire

I.M3

EMMS

East Midlands Materials Society

A Local Society Affiliated to the Institute of Materials, Minerals and Mining



Agenda

- 09.15: **Welcome Address**
David Arthur, IOM3
- 09.20: **Introduction to GLEAM and the Bridge**
Matthew Thornton, The Bridge, University of Lincoln
- 09.30: **State of the Nation: Manufacturing Labour & Skills**
Chris Corkan, Make UK
- 09.50: **Apprenticeships for the Manufacturing Sector**
James McIntosh, Catch UK
- 10.10: **Coffee Break**
- 10.30: **Addressing Skills Gaps: Higher Education Opportunities**
Charlotte Kirton-Cook and Karen Burrows, University of Lincoln
- 10.50: **Professional Development for a Skilled Workforce**
David Arthur, IOM3
- 11.10: **Wrap-Up**
Matthew Thornton, The Bridge, University of Lincoln
- 11.15: **Networking and Close**





GLEAM
NETWORK

Creating a Manufacturing Community



- The Greater Lincolnshire Engineering And Manufacturing (GLEAM) Network is an initiative founded by the University of Lincoln, Greater Lincolnshire Local Enterprise Partnership (GLLEP), and Business Lincolnshire and managed by the Bridge.
- GLEAM provides a knowledge-intensive business corridor locally at the heart of the manufacturing business in Greater Lincolnshire and is open to all manufacturing businesses in Greater Lincolnshire. Members are able to join free of charge and gain access to a range of benefits, including Affiliate Partner Membership with Make UK.

Make UK Affiliate Membership Benefit

- Join Make UK as an Affiliate Member
- Make UK Affiliate Membership is open to members of Make UK partner organisations. You'll receive industry information and insight, contribute to Make UK's policy positions and have access to events, guidance and support on issues affecting our sector.
- To register for Affiliate Membership just complete the form at:
<https://www.makeuk.org/affiliate-member-registration>



BRIDGING BUSINESS WITH INNOVATION

- Bridge operates from the University of Lincoln and has a dedicated team of R&D project specialists working alongside the University's academic community.
- We help businesses access technologies and methods at the forefront of research to create R&D solutions, and drive innovation.



Bridge – Advanced Materials and Engineering R&D Centre



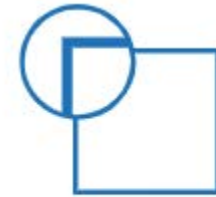
CONSULTATION AND 1-2-1 SUPPORT FOR BUSINESS DEVELOPMENT

Our process builds on an initial 1-2-1 consultation, roadmapping potential programmes from small-scale interventions to large-scale projects.



CREATION OF NEW PROCESS AND PRODUCT INNOVATION WITH OUR DEDICATED BRIDGE TEAM AND R&D PARTNERS

Bridge can address your advanced materials needs, assisting with new process creation and product innovation; providing access to world-class R&D at the interface of science and engineering through links to the University of Lincoln and a consortium of industry R&D partners.



MATERIALS RESEARCH AND INNOVATION

Bridge provides access to state-of-the-art instrumentation and laboratory workspaces. Our scientists and engineers are experienced in delivering cutting edge insight into materials

Bridge – Advanced Materials and Engineering R&D Centre



EXPERT USE OF INSTRUMENTATION AND MATERIALS ENGINEERING LABORATORIES

Our dedicated team of specialists includes a community of expert Instrument Scientists. We can share that knowledge and help upskill your team by creating bespoke training packages.



BUSINESS NETWORKING AND COLLABORATION

Our dedicated innovation centre provides a quality environment for business interaction facilitating exchange of expertise and business opportunities. We host a range of networking events and seminars and our facilities are available for business-led events.



TRAINING AND PROFESSIONAL DEVELOPMENT

Bridge houses a dedicated training facility for on-site and remote learning alongside laboratory settings for at-instrument or in-lab training. Bridge gives you direct access to academic- and industry-experienced consultants to educate, develop and mentor your staff and they can upskill at our regular specialist courses.

Bridge to... Manufacturing Innovation

- With programmes designed to increase businesses' competitiveness, Bridge has delivered innovation to businesses and connected regional and international supply chains to cutting-edge materials science and engineering in the manufacturing and engineering sectors.
- Bridge has supported manufacturing businesses to access technologies at the forefront of research to deliver effective problem solving and to develop the workforce of tomorrow through accredited training.

Watch the Video at <https://youtu.be/MV4p10BIHJ0?feature=shared>

- Visit our website for a virtual walkthrough of the Bridge at <https://www.thebridge-lincoln.org/>
- Follow us on:
 - <https://www.linkedin.com/company/thebridge-lincoln>
 - https://twitter.com/thebridge_linc
 - https://www.instagram.com/bridge_lincoln/
- E. mthornton@lincoln.ac.uk



FUNDED BY:



[thebridge-lincoln.org](https://www.thebridge-lincoln.org)

**State of the Nation:
Manufacturing Labour &
Skills**

Chris Corkan
Make UK

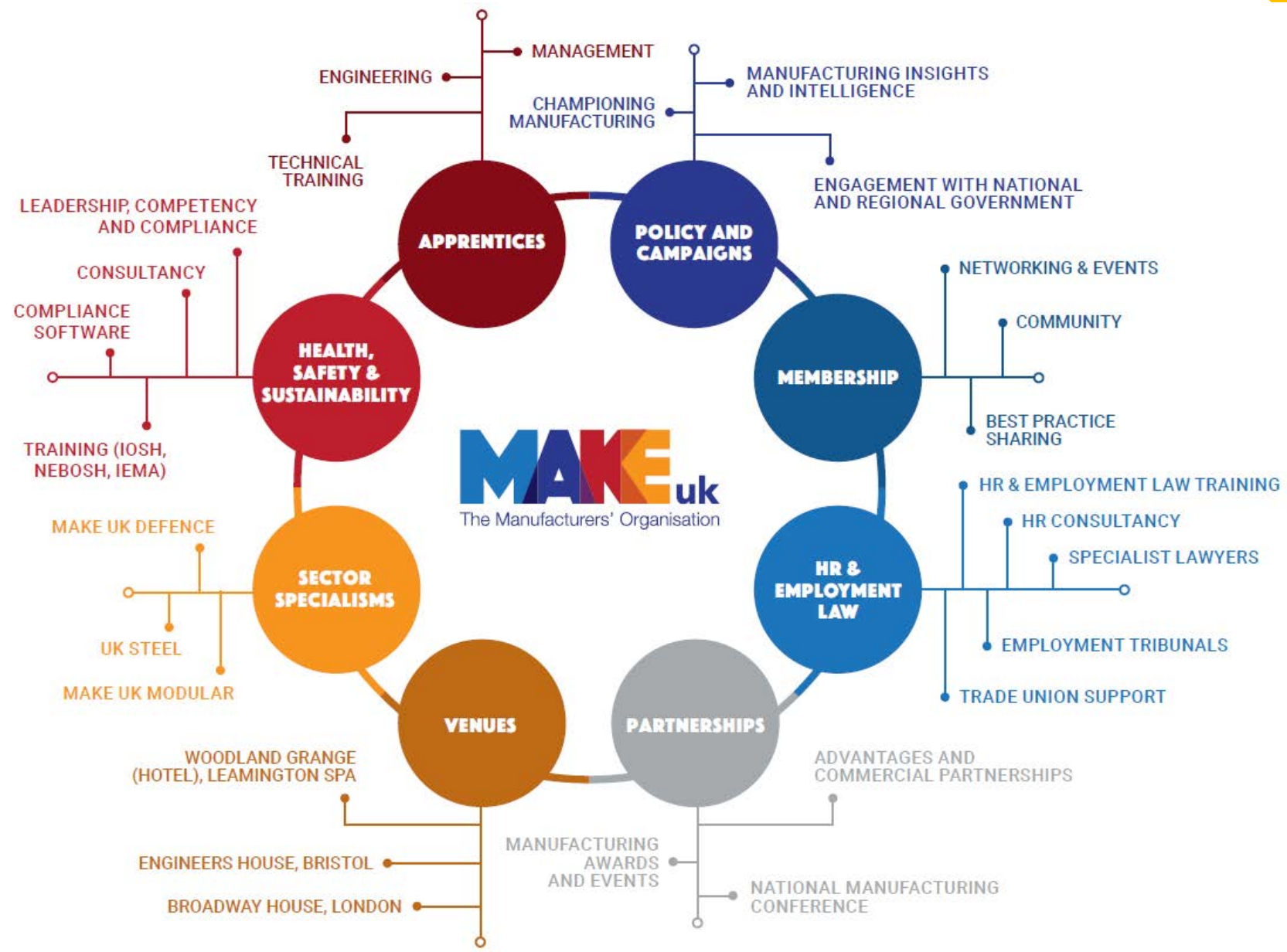


UK Manufacturing – State of the Nation

Chris Corkan, Region Director

Make UK, the manufacturers
organisation

makeuk.org





RISKS AND CHALLENGES

Cost pressures

Energy prices remain the biggest risk to growth. But it's not just energy costs as almost half see significant pressure on input costs as a major risk in the next 12 months



Just over **1 IN 5** manufacturers expect their profit margins to decline in 2024

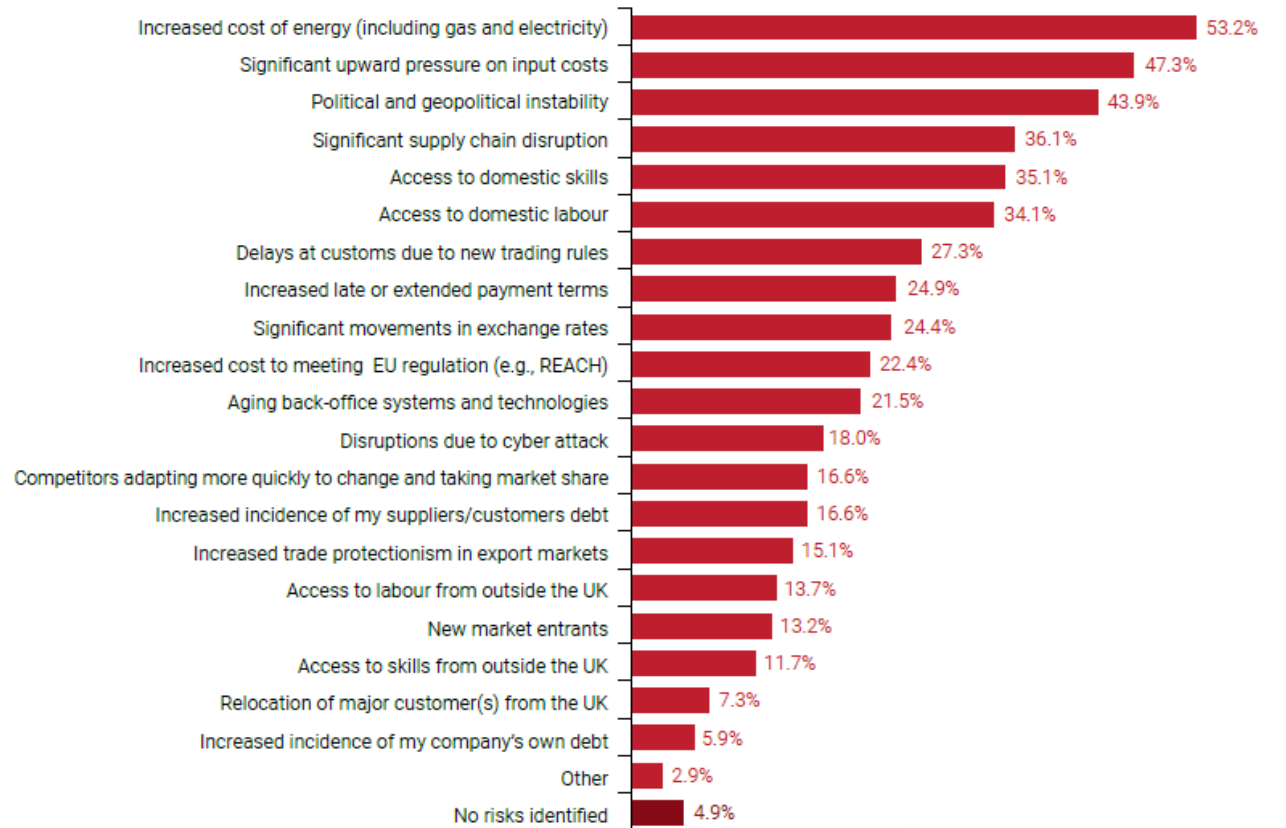
Access to people and skills

The vast majority expect employment costs to rise, either moderately or significantly, as they battle it out to recruit and retain top talent through pay premiums - while taking on significant rises in the National Living Wage.

Instability and disruption

Manufacturers have faced significant disruption and instability over the past few years and political and geopolitical instability remains in the top three risks for 2024, with 44% of manufacturers reporting this as a risk.

Chart 2: Increased costs, access to skills and instability are key risks identified in 2024
% companies citing risks to their business in the year ahead





OPPORTUNITIES LIE AHEAD

Product portfolios

More than half (53%) of manufacturers are gearing up to launch new products

Net Zero

Around a quarter are looking to net zero opportunities to boost growth, with 13% to take advantage of the opportunities associated with Environmental, Social and Governance (ESG) standards and commitments.

New International Markets

More than a quarter (27%) are ready to expand into new, previously untapped markets

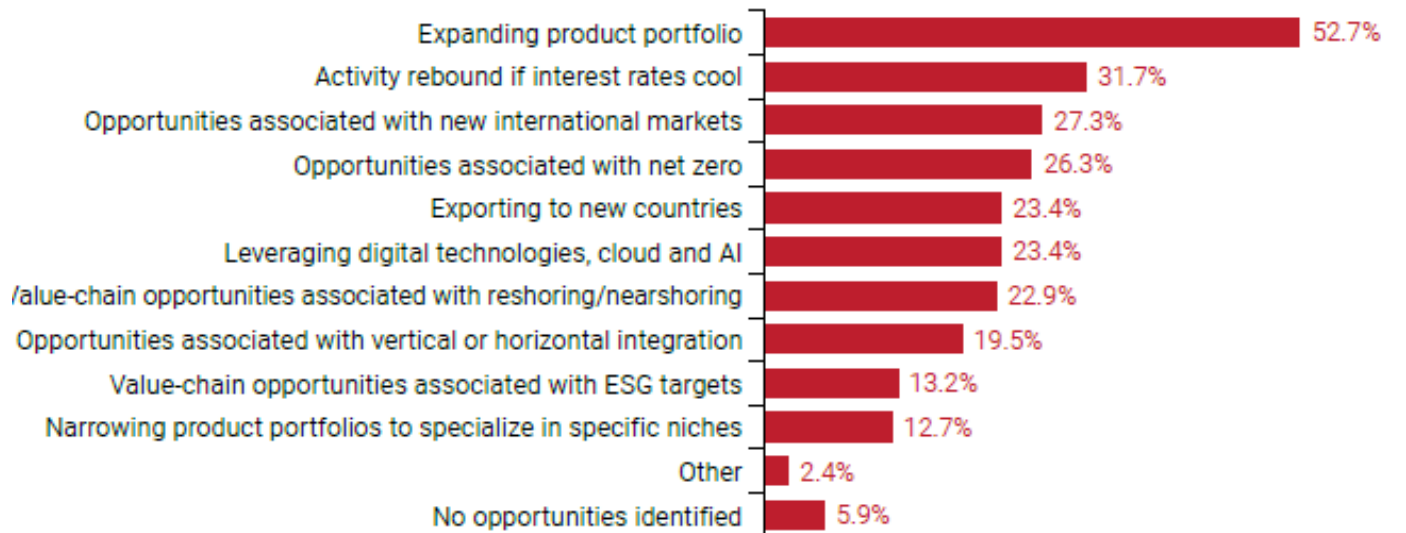


62% of manufacturers agree that opportunities outweigh risks in 2024



71% of firms agree digital tech will drive productivity in 2024

Chart 4: Digital, green and going global are major opportunities in the year ahead
% companies citing biggest opportunities for their business in 2024

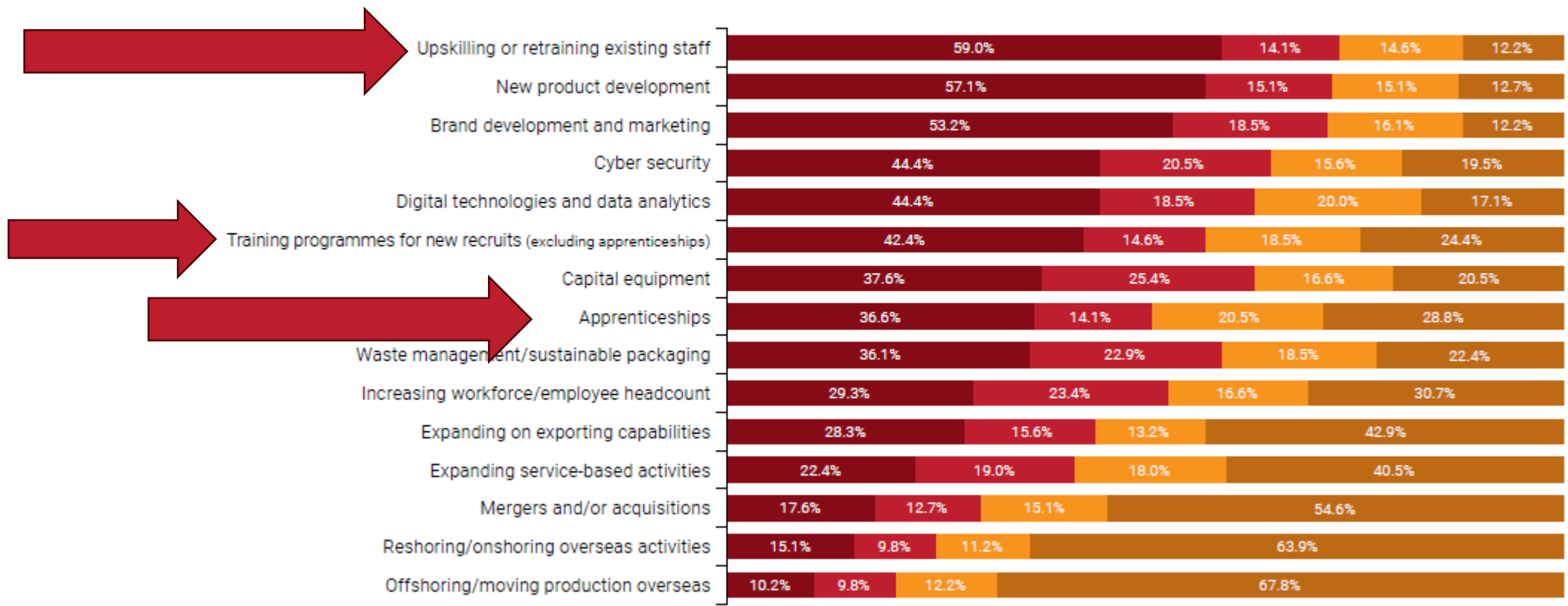


Investing in People & Skills

Chart 8: People and products remain priority investment areas for manufacturers in 2024

% companies citing plans to make investments in the next 12 months

■ Yes
 ■ No but we plan to in the next 24 months
 ■ No, but we are considering it
 ■ No and we have no firm plans to



Source: Make UK/PwC, Executive Survey 2024

Labour Market

- Lack of candidates turned into lack of skills

Why?

- Increasing number of the workforce now economically inactive.
- Increase in long term sickness and disability benefit claims
- 86% of inactive 50-54 year olds would consider a return. Likely inactive due to mental health & lifestyle reasons
- High pressure on wages and settlement agreements
- Labour Hoarding
- Immigration barriers

RECRUITMENT BARRIERS

WHAT HAVE BEEN THE BIGGEST BARRIERS TO RECRUITMENT?

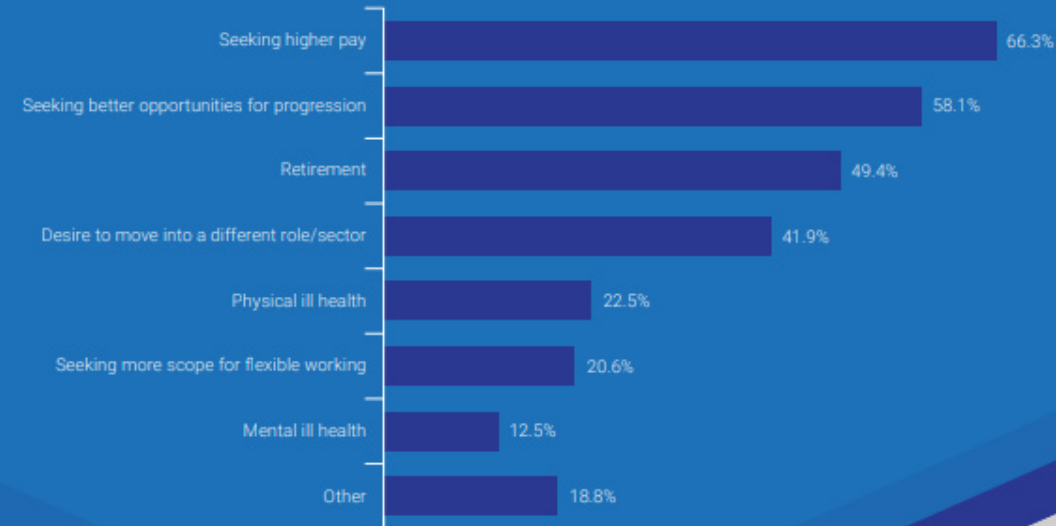


© Make UK

Source: Q1 HR Bulletin

@MakeUKCampaigns

EXCLUDING REDUNDANCIES, WHAT WERE THE REASONS FOR STAFF LEAVING YOUR BUSINESS IN 2022?



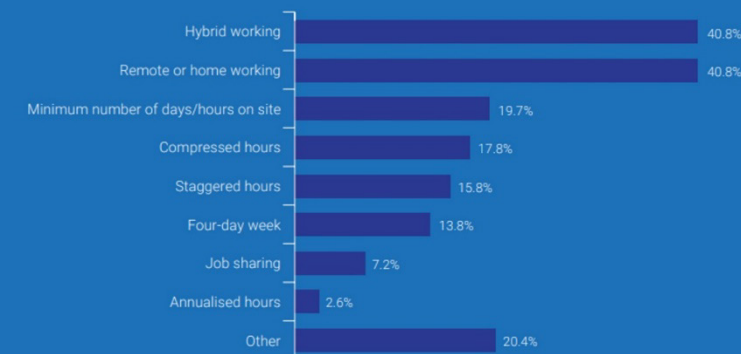
Recruitment & Retention

- Pay
- 44% of firms have increased skills training
- The same proportion have increased investment in health & wellbeing support for staff
- Hiring attitude if not the skill set
- Committing to Apprentice training
- Building an open and transparent culture – a team
- More flexible and hybrid working
- Responding to the cost of living crisis
- Employee engagement
- Recruiting outside the box



FLEXIBLE WORKING

WHICH OF THE FOLLOWING FLEXIBLE WORKING MEASURES HAVE YOU INTRODUCED IN THE LAST 12 MONTHS?



CAMPAIGN: CREATING A SUSTAINABLE WORKFORCE

Campaign message: We must create a future fit talent pipeline to power manufacturing and engineering into the future and ensure the existing workforce is equipped with the skills needed now and in the future.

Ambition: Reduce the number of unfilled vacancies from 3 in every 100 to 1.6 in every 100 (pre-pandemic levels), and increase apprenticeship starts in manufacturing to pre-Levy numbers.

Main ask: A root and branch review of the Apprenticeship Levy and the wider skills system.

Autumn statement: £50m pilot for 'growth sector' apprenticeships

Apprentice minimum wage rises, while talks over levy restrictions continue



The Next Generation (Z)

- Characteristics: Ambitious, Digital Natives, Confident
 - Their priorities?
 - Your Values
 - Company Mission
 - Their Interests
 - Personal Development
 - Environmental, Social, Governance
 - Equality, Diversity, Inclusion
- = pay isn't everything

- Workplace integration?
 - Communication
 - Tech
 - Snowflake generation

OVER THE NEXT DECADE,
20% OF THE WORKFORCE
WILL RETIRE

**CAN YOU
AFFORD NOT TO
ENGAGE WITH
GEN Z?**





UK MANUFACTURING FACTS

UK manufacturing sector accounts for **£224 BILLION OF OUTPUT**

Providing **2.6 MILLION JOBS**

Average wages **9% HIGHER** than the whole economy

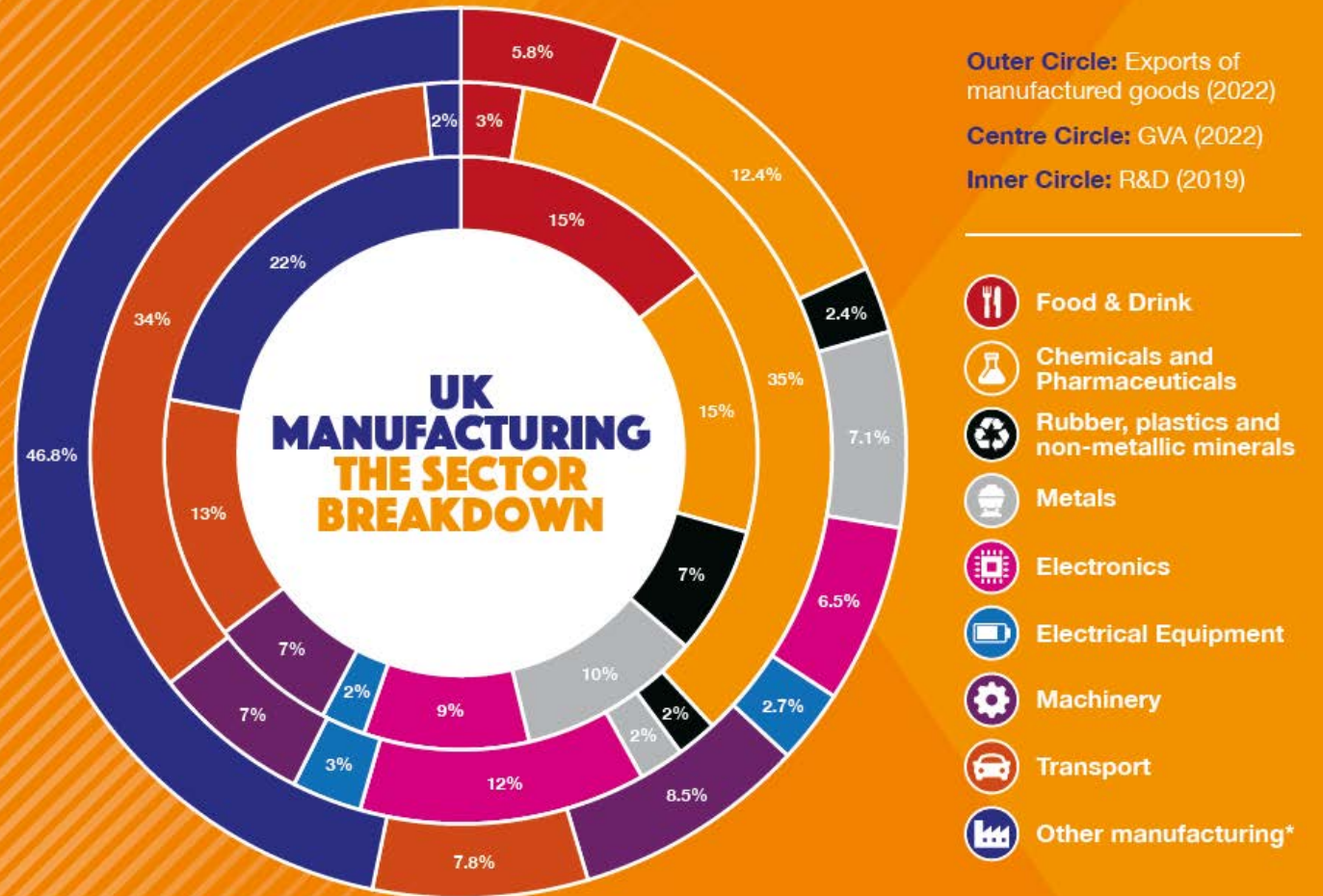


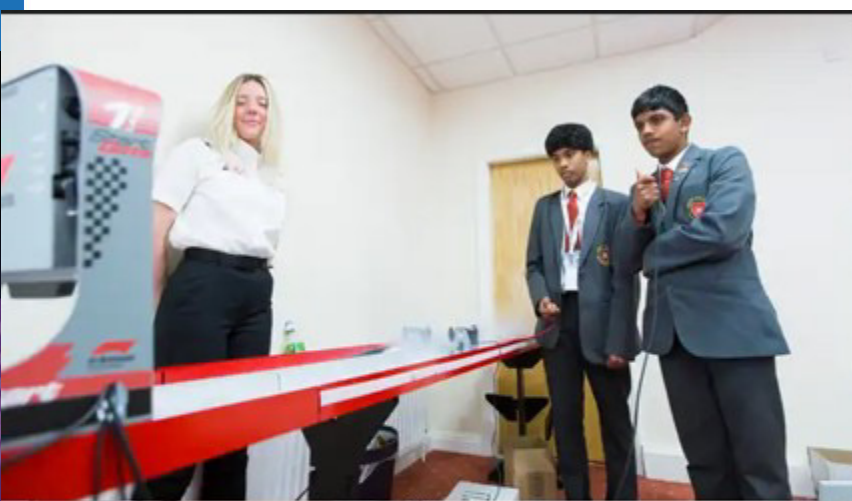
41% of UK R&D **16%** of total business investment



BACKING MANUFACTURING, ENGINEERING THE FUTURE

UK #manufacturing climbs to eighth in world rankings





Sign Up Now!!!

www.makeuk.org/nmd

Spread the word to your contacts

Work with your local school, college, university or youth organisation

Share the collateral on your social media channels



A CHANGING POLICY LANDSCAPE

The 'big' issues facing UK manufacturers are unlikely to change, but how political parties respond to these may differ.

Conservatives

- Build on T Levels/the Advanced British Standard
- Pursue a pragmatic approach to EU relations via the Windsor Framework
 - Work towards the Net Zero by 2050 target

Labour

- Reform the apprenticeship levy into a growth and skills levy
- Deliver a green prosperity plan and invest £28bn a year into a green economy
 - Improve the trading relationship with the EU, while remaining outside the single market and customs union

Lib Dems

- Update the shortage occupation list and better utilise the skills of older adults to train up younger workers
- Get 80% of Britain's electricity from green energy by 2030
- Develop a closer and more friendly relationship with the EU

Labour and the Lib Dems have confirmed that an **Industrial Strategy** will form part of their 2023 manifestos. We can expect industry and business to be a big part of their manifestos.

We can expect the Conservatives to look at **reducing the tax the burden** in their manifesto.

Make UK Membership

- Influence & Shape Policy – Locally & Nationally
- People & Skills Benchmarking – Salary, Turnover, Absence, Pay Settlements
- Preferential Support: Energy Procurement, Employee Benefits Provision
- Exclusive Industry Insight
- Best Practice Guides e.g. Adopting Technology
- Exclusive access, connections, network and events programme
- Community of over 22,000 manufacturers
- Supplier Capability Index

Contact details:

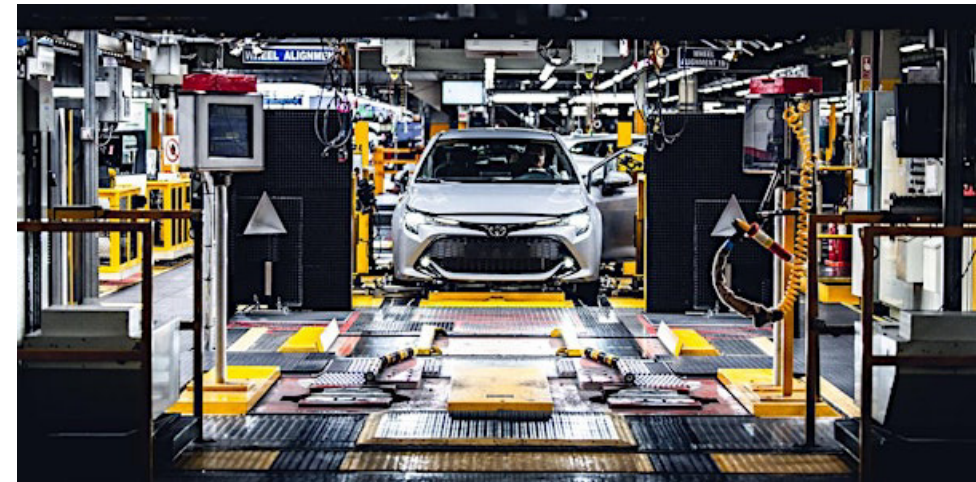
✉ ccorkan@MakeUK.org LinkedIn: [@ChrisCorkan](#)

JOIN US TODAY

Championing Manufacturing

We create the most supportive environment for UK manufacturing growth and success, and we represent the issues that are most important to our members

Make UK's Manufacturing Connect - Driving Operational Excellence at Toyota



Apprenticeships for the Manufacturing Sector

James McIntosh
Catch UK





Apprenticeships for the Manufacturing Sector

Delivered by

James McIntosh – Chief Commercial Officer



CATCH
CATCH

1
Conference
Centre

2
NCPM

3
Working at
Heights

4
Confined
Spaces

5
Technical Training
Centre

6
Scaffolding
Training

7
Welding &
Pipefitting Hub

8
Apprenticeship
Workshop



CATCH
FACILITY



THE TRUE HOME OF
**INDUSTRIAL
TRAINING**

The UK's Leading Fully-Operational
Tank Farm and Process Plant
Training Facility

WWW.NCPM.UK



The NCPM

The NCPM



SET YOUR SITES
ON SAFETY
AND TECHNICAL
EXCELLENCE

THE NCPM
FROM ABOVE



The Humber: UK's Energy Estuary

£22 Bn of Identified Investment.



35% of total UK offshore wind capacity operating today from the Humber and growing

80% of the UK's licensed CO₂ storage capacity is accessible from the Humber

TO VIKING CO₂ STORAGE

Skills & Resource Challenge

The case for moving now



Significant demand for thousands more skilled apprentices

Table 1: Summary of estimated CAPEX to 2050

Industrial Cluster	Emissions MtCO ₂ (NAEI 2019)	£bn	CAPEX £515bn to 2050 = 353,155 <small>jobs per year to deliver industrial decarbonisation</small>
North West	2.1	31.8	
East Coast - Humber	5.4	46	
East Coast - Teesside	1.3	30	
Grangemouth	1.5	35	
South Wales	2.7	24.3	
Southampton	1.4	16.5	
Black Country	0.1	2	
Total Cluster shared & deployment infrastructure	14.5	185.6	
Dispersed shared & deployment infrastructure	22.6	286.2	
Total UK deployment infrastructure	37.1	471.8	
Total Sector Sites		43.2	
Total UK		515.0	

Engineering Construction Industry (ECI) – Demographic Impact

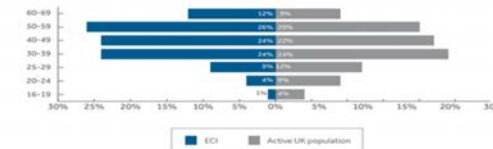
Net Loss of **2.2%** Per Year leavers vs new entrants

Short Term: **11%** reduction in available resources within 5 years

Medium Term: **22%** reduction in available resources within 10 years

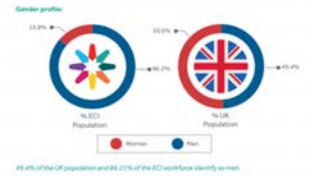
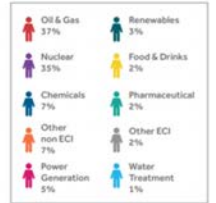
Critical Trade Skills losses: Mechanical Fitters & Platers Net loss 31% over 10 years

Age profile:



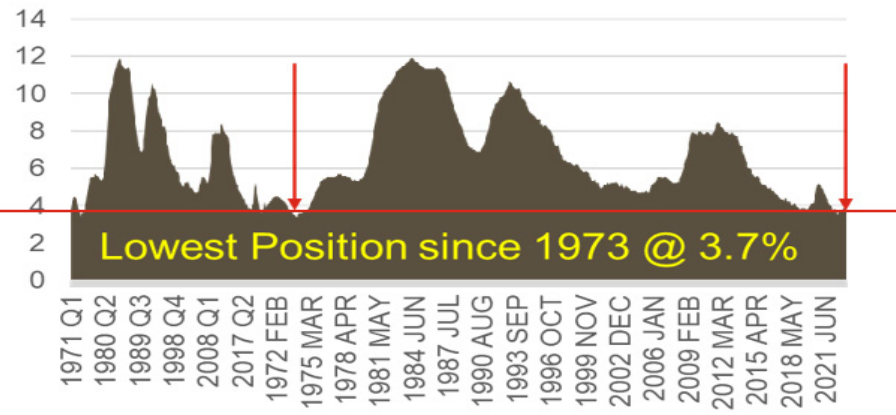
31% of the ECI workforce is aged between 16 to 19 years old, while 3.96% of the active UK population is in this same age group.

37% of the UK-based ECI workforce is working in Oil & Gas

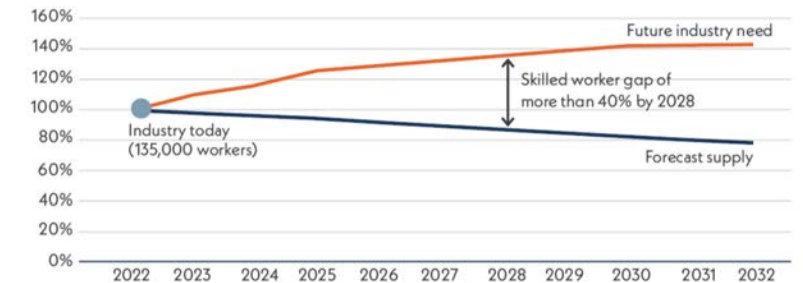


49.4% of the UK population and 65.21% of the ECI workforce identify as men.

Unemployment % (1971 – 2023)

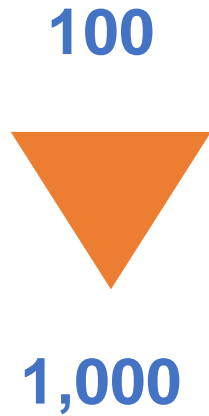


The skilled worker gap¹



¹ Across all UK Heavy Engineering and Construction sectors; data compiled from ECITB Labour Market Outlook 2019 and ECITB Workforce Census 2021

Increase new learner numbers per year



Become an Industrial Innovation Leader in AI, Robotics and Automation & Sea Survival Centre



Mechanical Fitters

Increase from 20 to 200



Welders

Increase from 14 to 200



Pipe Fitters

Increase from 14 to 100



Project Management/Controls

Increase from 0 to 60



Platers

Increase from 0 to 100



Electrical & Instrumentation Technicians

Increase from 20 to 150



Process Operators

Increase from 40 to 60



Other Trades

Increase from 0 to 150



We are working together to **secure this workforce**

CATCH Apprenticeships

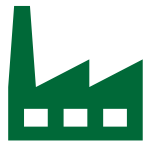
The most specialist, employer focused, technical programmes in our regions



- **Process Operations** (Process Industry Manufacturing Technician)
- **Electrical & Instrumentation** (Maintenance, Operations Engineering Technician)
- **Mechanical** (Maintenance, Operations Engineering Technician)
- **Plate/Pipe Welder**
- **Engineering Construction Pipefitter**
- **Metal Fabricator (Plater/ Sheet Metal)**



Contextualised, practical learning scenarios utilising the National Centre for Process & Manufacturing



Focus on workshop and plant based practical skills



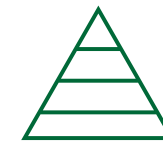
Schools engagement programme integral to our provision



Employer led provision with design, development



Added value training courses built into the programme



Structured recruitment process which ensures employers get the right candidate



Personal development and pastoral care sessions to enhance the programme

Yorkshire – Lincolnshire – Humber & beyond

Employers we work with



**Technical
Absorbents**
The Absorbent Solutions Provider



TRITON POWER



VPI

wood.



Singleton
Birch

INEOS



**AIR
PRODUCTS**



TRONOX

Lenzing
Innovative by nature



vivergofuels
An AB Sugar company

**AGGREGATE
INDUSTRIES**

**centrica
storage**

CRODA

SOLENIS

myenergi

Cargill

EFAB
AN EQUANS COMPANY

InterGen

CATCH

Employer Engagement Opportunities

- Curriculum Development sessions
- Employer working group
- Site Visits
- Project Presentations
- Guest speaker opportunity
- Apprentice Ambassador Programme
- Schools Engagement
- Equipment donation



Why should you recruit an apprentice?

- Succession planning – don't just recruit 1:1
- Great way to develop and retain talent
- Offers opportunities to young people and pathways to train others
- Enables current staff to become mentors and support learners with their experience
- Diversification across teams and workforce
- Encourages curiosity and innovation
- Have an active input into moulding your workforce
- It is an investment!



We strive for

EXCELLENCE

noun: The quality of being outstanding or extremely good.

CATCH

CATCH
TECHNICAL

CATCH
MEMBERSHIP

CATCH
FACILITY

CATCH
SKILLS

@ **CATCH**



Coffee Break and Networking

Back at 10.30



**Addressing Skills Gaps:
Higher Education
Opportunities**

Charlotte Kirton-Cook and
Karen Burrows
University of Lincoln





ADDRESSING SKILLS GAPS: HIGHER EDUCATION OPPORTUNITIES

*Charlotte Kirton-Cook, Marketing Manager
(Educational Partnerships)*

*Karen Burrows, Senior Lecturer and Apprenticeship
Programme Lead (Department of Management)*

CPD and Short Course Provision

- Higher Education credit bearing (e.g. microcredentials) as well as non-credit bearing options
- Flexible, online and hybrid delivery options available
- 6-12 weeks modules
- Designed to work around work and family commitments
- Affordable, pay as you go
- Bespoke cohorts for employers

Why Choose Lincoln

- ✓ Flexible, online delivery
- ✓ 5 Master's-level credits
- ✓ Covers key financial ratios used in association with external financial reports
- ✓ Completed over 6 weeks
- Developed by experts at Lincoln International Business School



CPD and Short Course Provision

- Key subject areas in demand:
 - Leadership
 - Sustainability
 - EDI
 - Finance
 - Marketing
 - Numeracy
 - ICT
 - Digital and AI
 - Wellbeing



Embed new skills and expertise with a Knowledge Transfer Partnership (KTP)

A three-way partnership that delivers:

- the **expertise** to innovate and develop
- the **grant funding** to enable partnership working
- the **resource to deliver** transformational change

The UK picture:

- ❖ £43m annual grant budget (increasing to £50m)
- ❖ ~ 800 projects running currently (increasing to 1,000)
- ❖ 5 grant application deadlines per year (85% approved)
- ❖ has been running since 1975 (well established!)

How does a KTP work?



Company driven partnership with an academic team



Apply knowledge – deliver new capabilities



Projects 12 – 36 months



Associate full-time on the project (@ Business)



Academic time 10%



Strategic business project



Any Business
Any Size
UK Location



Grant Funding rates 50 to 75%



IP Exploitation



Economic (profit/reserves)
Societal
Environmental

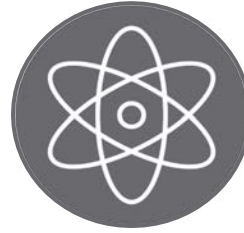
<https://www.ktp-uk.org/>

Setting up a Partnership



Business Partner

- Sees a strategic opportunity to transform and grow
- No off-the-shelf solution available
- Requires expertise only available in academia



Academic Partner

- A university, college, RTO, or Catapult in the UK
- Has knowledge to develop innovative solutions
- Cross disciplinary expertise provided half a day per week



Associate

- Recruited to deliver and lead the project
- Employed by KB and based in business partner
- Transfers and embeds new knowledge
- Develops new capabilities

KTPs can be about...

- Introducing new technologies
- Introducing new expertise
- Developing deeper understanding
- Developing new products, processes & services
- Optimising business processes
- Entering new markets



<https://www.ktp-uk.org/>

Eligibility

- Large, SMEs and Micro businesses or organisations
- Affordability with absorptive capacity (2-3 yrs' accounts preferred)
- Any structure and ownership (plc/Ltd/LLP)
- Multinationals (ensuring net benefit to UK economy)
- University Spin-outs
- Charities and not-for-profit organisations
- Public Sector Organisations (recently added – mKTP for up to 2 years only)

Grant rates:

SME and micro businesses	67%	
Large businesses	50%	
Not-for-profit/charities		75%
Public sector		50%

Typical total project costs per annum approx. £90k – £100k

<https://www.ktp-uk.org/>

Case study: Arktis Endurance Textiles



The University of Lincoln's Biomechanics team, led by Dr Franky Malloy, is working with Arktis Endurance Textiles Ltd. on a Knowledge Transfer Partnership project which applies scientific principles and biomechanical analysis techniques to enhance the research and development process for police, military and outdoor load bearing equipment.

Management Apprenticeships Level 4 -7

**Our Mission is 'to develop socially responsible leaders ready to meet the challenges
of 21st century business.'**

Associate Professor Amy Mumby – Director of Online and Flexible Learning

Senior Lecturer Karen Burrows – Apprenticeship Lead

Senior Lecturer Nicola Pattinson – Apprenticeship Quality Lead

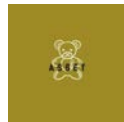
Lecturer Amanda Boyd – Portfolio Lead

askwbdl@lincoln.ac.uk

Celebrating Success

Lincoln International Business School

- Apprenticeship programmes. Launched in 2018, with 204 apprentices enrolled in the last five years
- 100% Successful EPA
- Working with a range of employers



UNIVERSITY OF
LINCOLN

Apprenticeship Suite

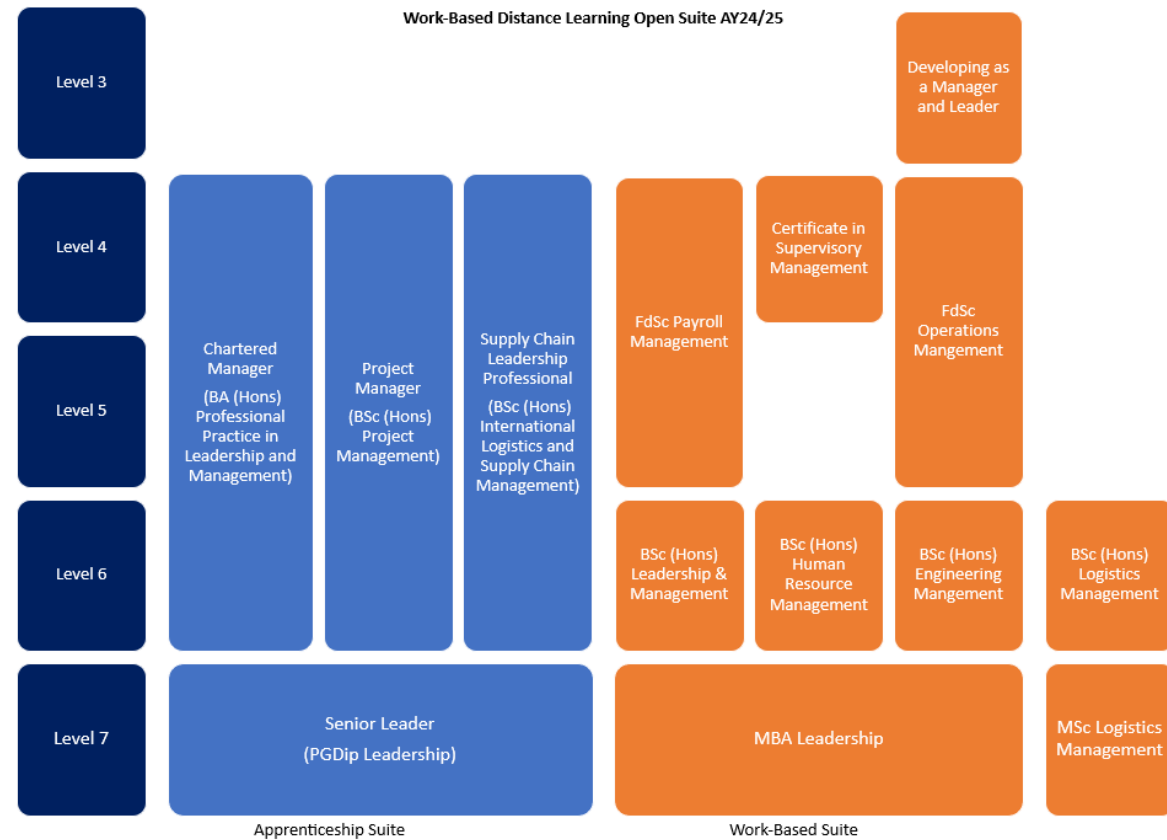
Within Work-Based

- An Apprenticeship with underpinning Qualification
- Progression from level 3 to level 7
- Improving competence for industry
- CMDA/SLA: Chartered Manager
- Project Manager: PMQ (APM)
- Supply Chain Leadership Professional: CILT

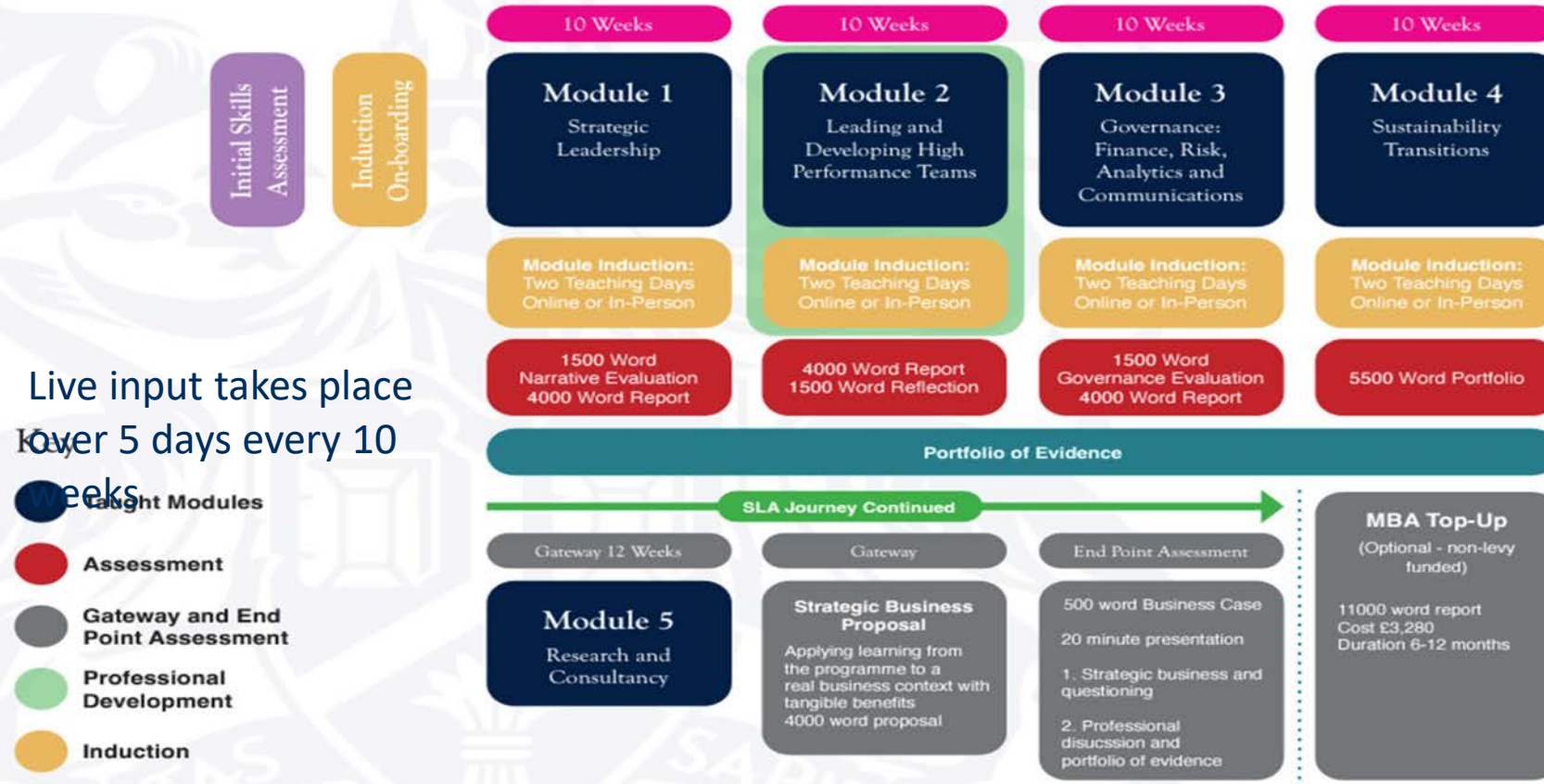


Work-based Provision

- Designed for those in work
- Flexible
- Apprenticeship and non-apprenticeship options



Senior Leader Apprenticeship (SLA) Programme Structure



Live input takes place
over 5 days every 10
weeks

- Taught Modules
- Assessment
- Gateway and End Point Assessment
- Professional Development
- Induction

Mon	0900- 1030	0900- 1030	BREAK	1100 – 1200	LUNCH	1300-1430	BREAK	1450-1700
	Introduction to Programme Expectations of Module	Introduction to Programme Expectations of Module		Knowledge		Skill		Knowledge
	Module Leader	Programme Leader		Module Leader		Module Leader		Module Leader
Tue	0900-10.30		BREAK	1100-1200	LUNCH	1300-1500	BREAK	1530-1700
	Knowledge			Skill		Responsible Management		Responsible Management and Functional Skills
	Module Leader			Module Leader		Module Leader		Module Leader
Wed	0900-1030		BREAK	1100 – 1200	LUNCH	1300-1430	BREAK	1500-1700
	Expectations of Apprenticeship Standard			Working with your Mentor and Success Coach		Building your Portfolio and Recording Impact Introduction to OneFile		Work Place Mentor Meetings
	Success Coach, Work Based Mentor			Success Coach, Work Based Mentor		Success Coach, Work Based Mentor		Success Coach, Work Based Mentor
Thu	0900-1030		BREAK	1100 – 1200	LUNCH	1300-1430	BREAK	1500-1700
	Functional Skills and A & L Screening			Safeguarding (Including PREVENT) British Values (One Community)		Community Impact		Personal Professional Development
	Success Coach			Success Coach		Success Coach		Success Coach
Fri	0900-1000		BREAK	1030-1200	LUNCH	13:00 – 16:00		
	Wash Up Academic/Functional Skills Final Assignment Workshop			Assignment Work One-to-One Support		One-to-One Support		

Week	Contact Time (live, Online)	Expectations	Attended by
Week 5	One Hour	Mid-module Review. Student to provide progress update and highlight any challenges. Tutor to provide feedback themes from formative work, challenge guidance and suggest areas for exploration to expand on current work in-line with Learning outcomes	Students Module Tutor
Week 4-5	One Hour	Mid-module review. Apprentice to share progress made within one file, and highlight challenges. Success Coach to gap check and provide guidance to improve and develop in-line with KSB requirements	Apprentice Success Coach
Week 9	One Hour	Final Assessment Workshop. Student to provide progress update and highlight any challenges. Tutor to provide feedback themes from formative work, challenge guidance and suggest areas for exploration to expand on current work.	Students Module Tutor
Week 11	90 Minutes	Tripart-Review. Review progress, action plan for gaps and identify needs for next area of standards to be achieved.	Apprentice Success Coach Work place Mentor

A typical module timetable



Thanks for listening!

Feel free to get in touch 😊

Charlotte – ckirton@lincoln.ac.uk

Karen – kburrows@lincoln.ac.uk



Professional Development for a Skilled Workforce

David Arthur

Institute of Materials, Minerals
and Mining



GLEAM
NETWORK

The logo consists of the letters 'I', 'M', and '3' in a bold, sans-serif font. A solid black dot is positioned between the 'I' and the 'M'. The logo is centered within a large, light gray circle that overlaps a pink triangle on the left and a red triangle on the right.

I·M3

**Institute of Materials,
Minerals & Mining**

IOM3 2024

David W Arthur BSc MPhil FIMMM

iom3.org

Institute of Materials, Minerals and Mining

IOM3 is:

A professional engineering, environmental and scientific membership body



PROFESSIONAL ENGINEERING,
ENVIRONMENTAL & SCIENTIFIC
MEMBERSHIP BODY



Incorporated by Royal Charter (RC000267)



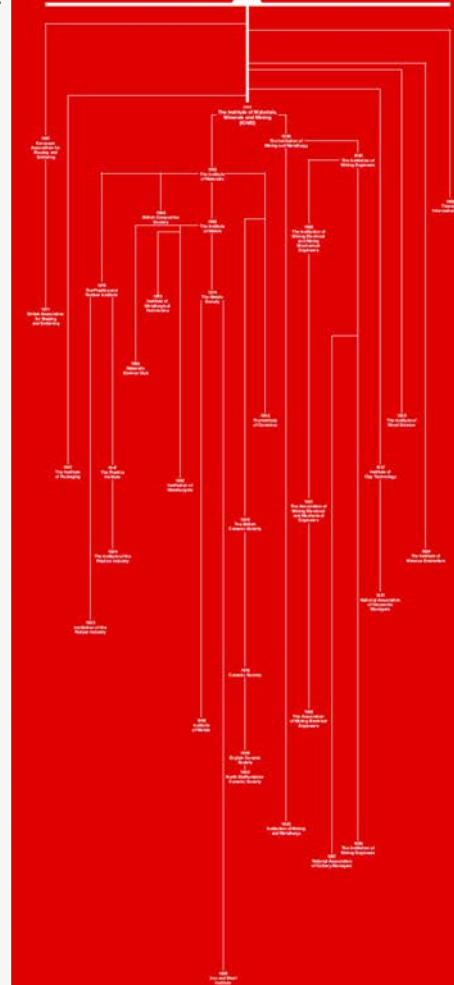
A registered charity in England & Wales (269275) and in Scotland (SC050586)



Formed by a series of mergers since 1869 (the creation of our earliest national predecessor, the Iron and Steel Institute)

I.M3

THE ROOTS OF THE INSTITUTE

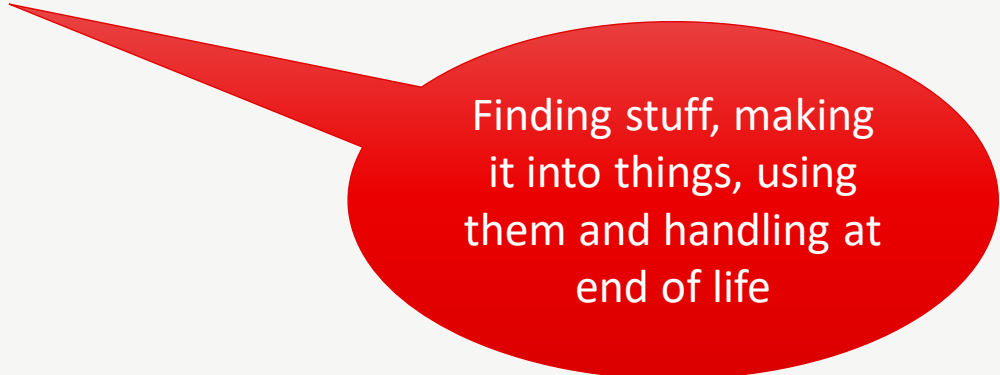


I·M3 Institute of Materials, Minerals & Mining

The global network for the materials cycle, promoting sustainability and greater circularity in the extraction, processing and use of natural resources.

Vision

To be recognised as the global leader for professionals involved with the materials cycle.



Finding stuff, making it into things, using them and handling at end of life

Mission

To promote the science, design, engineering and technology of materials, minerals and mining and their practical applications and facilitate qualifications, professional recognition and development, and to deliver knowledge, information and networking services to a global membership and wider community.

Our member workshops



CSci in a Day

CEng in a Day

Introduction to Professional Registration

Becoming a Fellow

Women into Fellowship

CEnv Registration Workshop

25 IOM3-Affiliated Societies across the UK...

...and 4 International Societies

Our Affiliated
Local and
International
Societies



...altogether with >240 volunteers

Membership

Technical Content

Professional
Development

Influence

Infrastructure

Our Podcasts



Membership

Technical Content

Professional Development

Influence

Infrastructure

Delivering training to support professional development in the materials cycle in technical and non-technical areas

Training as a conduit to PD



Membership

Technical Content

Professional
Development

Influence

Infrastructure

Outreach for schools and students

A collage of various outreach activities and awards. The items include:

- Future Materials Conference (I.M3 SECC logo)
- Student Conferences
- Road to Chartership (I.M3 SECC logo)
- Mentoring
- Young Persons' Lecture Competition
- Competition
- Awards & Prizes (displaying several medals)
- Producing Content
- IOM3 Investigates... TAKING YOUR CAREER TO THE NEXT LEVEL
- Professional Development & Using your Influence (no matter how junior you are)
- Materially Challenged
- Social Events
- Getting Involved
- I.M3 Grants
- Grants & Bursaries

£25k in 2023; up to £60k available

Professional Development

- Deliver a comprehensive portfolio of professional development opportunities and support to individuals and organisations working within IOM3 topics;
- Provides a mix of online and blended learning capabilities to accommodate different learner needs; and
- Existing outreach offering that seeks to engage, educate, and enthuse the next generation of professionals across the materials cycle and extend it to increase the focus on potential future minerals and mining professionals as well.

22 Technical Communities

I.M3



Membership





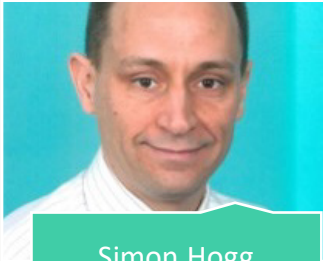
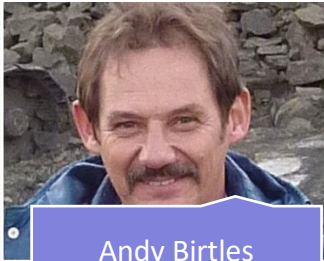



Technical Content

Professional Development

Influence

Infrastructure

9 Themes, 9 Strategic Advisors

 <p>Rowan Carstensen</p>	Transport	 <p>Graham Ormondroyd *</p>	Infrastructure	 <p>Marcus Caine</p>	Health
 <p>Reza Sanaee</p>	Energy	 <p>Simon Hogg</p>	Manufacturing	 <p>Andy Birtles</p>	Mining
 <p>Sophie Parsons</p>	Sustainability	 <p>Cynthia Adu</p>	Skills	 <p>James Goddin</p>	Digital

Membership

Technical Content

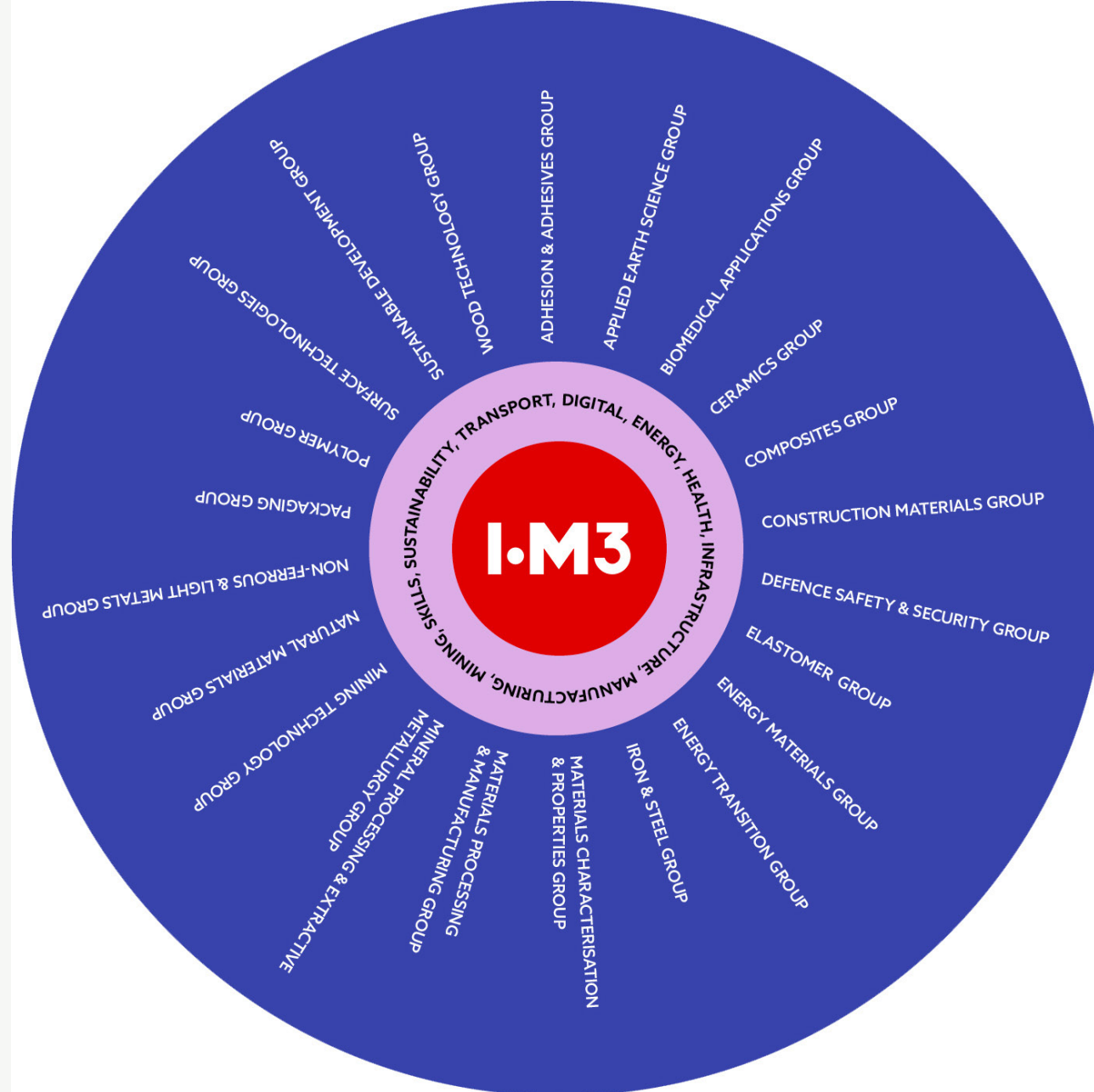
Professional
Development

Influence

Infrastructure

Themes & TCs

I.M3



Membership

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Professional Development

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I·M3

The Institute is a body incorporated by Royal Charter, a charity registered in England and Wales (269275) and in Scotland (SC050586).

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iom3.org

Wrap-Up

Matthew Thornton

Bridge @ University of Lincoln



Save The Date!

**Funding and Support for Innovation
in Manufacturing**

Thursday 6 June 2024

Bridge, Lincoln







GLEAM
NETWORK

Close and Networking