Manufacturing, Science & Innovation



RATIONALE

Although small, this sector has high growth potential, and fast-moving skills needs due to changing technologies. There is much inward investment into the area (including in Health and Life Sciences) which will likely drive growth in the supply chain.

	LABOUR MARKET		SECTORAL CHALLENGES				SPECIFIC REPORTED SKILLS GAPS		
•	(Science and Innovation) in Oxfordshire. This was an increase of 4% occ compared to the Business Register in 2017. The vast majority were micro businesses, or small enterprises with 5 medium-sized companies How and 5 large. For The total number of jobs in the Manufacturing *Science & Innovation) Oxf sector in Oxfordshire in 2022 was 4,400. This is an increase of 600 (16%).		With the pipeline of development work in the area remaining strong, growth may occur. However, although the identified Standards are being delivered in Oxfordshire, participating numbers remain small (2021/22). For example, Science Manufacturing Process Operative L2 had less than 5 starts in Oxfordshire in 2021/22. This offers a challenge to providers for affordability and may be an opportunity for collaboration. Better careers advice around jobs in engineering – what types of roles are available, how to excite people to join the industry.			Continuous Improvement Principles (Cl). Employability: communication, listening, team working. Cross skilling- improving productivity through people undertaking more than one role or activity.			
			els 2-3)	Higher Technical Occupations (Levels 4- 5)	Professional Occupations	(Level 6+)	T Levels		
				Product Development Manager L4 Process Leader L4 MG			Design & Development- Mechanical Engineering		
_		Engineering design and draughtsperson - Control & Instrumentation or Mechanical L3 MG		Engineering Manufacturing Technician L4 MG			Design & Development- Mechanical Engineering		
Ī	esign & Development Engineers Engineering Design & Draughtsper		erson L3 MG	Product development manager (L4) Senior CAD Engineer			Design & Development- Mechanical Engineering		
Production & Process Engineers		Science Manufacturing Process Operative L2 MG Science Manufacturing Technician L3 MG					Engineering, Manufacturing, processing and Control		
_	Electrical and Electronic Engineers						Engineering, Manufacturing, processing and Control		
-	Engineering Technicians	neering Technicians Science Manufacturing Process Operative L2 MG					Engineering, Manufacturing, processing and Control		
	Quality Assurance Technicians Lean Manufacturing operative - Inspection/Quality L2 MG						Engineering, Manufacturing, processing and Control		

SECTOR SPECIFIC: MANUFACTURING SCIENCE & INNOVATION



DESCRIPTION OF CHANGE AND EXPECTED BENEFIT	ACTIONS	OWNER	EMPLOYER CHAMPION	TIMESCALE	POTENTIAL FUNDING
he LSIP will promote expansion, development, and delivery f provision in the identified priority areas. he T level in Engineering, Manufacturing, Process and control is only being offered from 2024 onwards by UTC exfordshire. There are no current providers of Maintenance, nstallation and Repair for Engineering and Manufacturing. his leaves much of Oxfordshire without access to these echnical routes.	Education & Training Providers to use LSIF, Innovation Fund or Skills Bootcamps as alternative sources of funding to align delivery to the priority skills needs via new programmes such as short, modular courses. Education and Training Providers to work together collaboratively, through the LSIF to invest in up-to-date technologies, capital and spaces for Science and Innovation.	ERB ETPs Partners Employers	TBC	Summer 2023- March 2025	LSIP LSIF AEB 16-18 Bootcamp App Emp Other
	The Product Development Manager L4, Process leader L4, Senior CAD Engineer are identified as an industry need; however, a Trailblazer Group has yet to be formed to develop an Apprenticeship. The Battery Manufacturing Technician L3 is under development. The LSIP will test appetite amongst Oxfordshire employers to develop these standards.	ETPs		March 2024	
	Education & Training Providers to explore the market for T Levels in Engineering in their catchment areas and consider implementation accordingly.	ETPs		March 2024	
Employers reported some need for cross-skilling, for example, increasing productivity through the upskilling of the workforce to be able to multi-task.	Explore a pilot with an employer and local ETP to create a suite of training modules (using employer investment) to provide cross-skilling opportunities to improve productivity.	ERB ETP Emp	твс	September 2024	Emp

	-		ETPs lopment Education & Trc Providers	LEP ining Thames Valley Berkshire LEP	PARTNERS Including Trade Bodies, Careers Advisers, JCP and other agencies		CEIAG Careers Education, Information, Advice & Guidance	
Information Key FUNDING LSIP Local Skills Improvement Plan Funding	LSIF Local Skills Improve (funding)		EB dult Education Budget (inc novation Fund and Loans)	App Apprenticeship Funding	16-18 16-18 year old education funding	Emp Employer fu commitmen	nded, or time t	Bootcamp Skills Bootcamp