Local Skills Report and Plan

Annex A - Core Indicators
And
Annex B – Additional Data
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This Annex provides data and intelligence on key aspects of Oxfordshire’s labour market and skills landscape. The indicators presented within Annex A have been defined by the Department for Education (DfE), to ensure consistency between the Local Skills Reports being produced by Local Enterprise Partnerships (LEPs) and Mayoral Combined Authorities (MCAs) across England.

OxLEP has drawn on local intelligence to provide commentary around these indicators. This local intelligence has been gathered from: OxLEP board members, Oxfordshire Skills Board/Skills Advisory Panel members, Other OxLEP Sub Groups, local employers working within the Oxfordshire Skills Hub on careers initiatives, local employers surveyed as part of the Oxfordshire Employer Skills Survey, local SMEs that have engaged with the OxLEP ESF Skills for Business Programme, the Oxfordshire Provider Network.

As per the Department for Education guidance for Local Skills Reports, additional data analysis and local intelligence is provided within (or sign-posted from) Annex B.
Local Landscape

Local Landscape - Summary

<table>
<thead>
<tr>
<th>Skills Barriers</th>
<th>An increasingly ageing population, which has accelerated over the last five years. Nearly a quarter of the population are over 65 years of age (3% increase in last ten years). Only 13% are young people at that start of their working careers and there has been a similar decrease in the number of people aged between 16-24 and 25-49 over the last ten years. Population growth has lagged national and Oxford-Cambridge Arc rates.</th>
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| Earning disparities | Staffing and graduate retention challenges:  
- housing affordability (10.2 times the average resident earnings in central Oxford some cases 17 times local earnings) causing  
- settlement by EU residents following UK exit from EU  
- settlement and commuting barriers for those on lower incomes or in lower skilled roles.  
- Attraction of other South East cities including London  
- Attraction of high salaries in London with London Weighting attached  

Pocket of persistent labour market deprivation, most prominent in the City of Oxford where 40% of local communities are among the bottom 50% most deprived nationally  
Education inequality, particularly in the City of Oxford and Cherwell.  
High levels of economic inactivity in Cherwell local district, with long term sickness the biggest challenge. |

The Impact of Covid19 on the Local Landscape

Our Economic Recovery Plan suggests that the Oxfordshire economy has been more resilient than elsewhere, and as such is likely to return to growth sooner as it has a lower relative dependence those sectors that have been most impacted – notwithstanding the challenges faced by our visitor economy.

<table>
<thead>
<tr>
<th>Challenges</th>
<th>Opportunities</th>
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| - Amplified longstanding labour shortage in the health and social care system.  
- A tripling in the Claimant and Alternative Claimant Count rate to 3.9% (however, the rate per population has remained significantly below national levels). Oxford has the highest rate (4.4%), followed closely by Cherwell (4.1%).  
- Young people and the over 50’s have been hit hardest by unemployment; importantly, older citizens proportionally more than in other previous economic recessions.  
- Youth unemployment rises across the county, is highest in Cherwell local area  
- A significant rise in NEET young people to 2.6% across the county, December 2020 from 1.5% November 2019  
- Cherwell and West Oxfordshire local areas have seen the highest take-up of Coronavirus Job Retention Scheme (CRJS). Closure of the CJRS in September 2021 is likely to have knock-on impacts on unemployment.  
- Amplified deprivation and intensified digital divide with many in ‘digital poverty’. Food deprivation highlighting areas of financial insecurity. | - A significant increase in the number of new business starts particularly in retail, real estate and head office activities and support, food and beverage services.  
- Some sectors, such as life sciences have seen significant growth associated with research and vaccination development.  
- Many businesses have pivoted their business model to support evolving pandemic need.  
- COVID-19 has also resulted in an increased interest in working in the Adult Social Care sector.  
- Upskilling/reskilling from sectors hit hardest in by redundancies (such as wholesale and retail trade, accommodation and food services)  
- Transferable skills can enable workforce hit hardest by redundancies to transition into labour/skills shortage sectors/occupations, such as Health and Social Care. |
Employment by sector:

Employment by sector, 2019 - Oxfordshire

Employment by sector, 2019 - England

Our economy is founded on a diverse mix of businesses, which we have grouped into two main categories: cornerstone businesses and breakthrough businesses. Cornerstone businesses provide an essential platform for economic growth, through the delivery of critical services and supply chains (for breakthrough businesses), as well as the majority of jobs for people across Oxfordshire. Breakthrough businesses are our innovation-focused businesses in science and transformative technologies, such as space, quantum computing, digital health and connected and autonomous vehicles. The number of businesses working in transformative technologies is increasing by 9% every year, tapping into global markets that are forecast to deliver £181 billion to the UK economy and £1.300 billion to the global economy by 2030. These are the businesses that have the potential to stimulate rapid growth in Oxfordshire economy, transforming cornerstone businesses models through sharing innovation and technology to improve productivity, and generate additional growth for the UK through wider uplift in manufacturing and supply chain opportunities. Both types of businesses are essential for sustainable future growth in Oxfordshire.

Oxfordshire has one of the highest concentrations of innovation assets in the world with universities and science, technology and business parks which are at the forefront of global innovation in transformative technologies and sectors such as fusion technology, autonomous vehicles, quantum computing, cryogenics, space, life sciences and digital health. The knowledge-intensive economic activity generated by the ecosystem attracts international talent and investment and encourages the highest intensity of university spin-outs in the UK.

‘Oxfordshire therefore has a high concentration of employment within high-value sectors. Sectors which have a higher concentration of activity in Oxfordshire compared to nationally, include education (and particularly Higher Education), ICT, professional services, life sciences, motorsport, digital (particularly data & software) and science instrumentation.’

Oxfordshire has world-leading strengths in key industries that are harnessing transformative technologies, have rapidly growing global markets and offer significant opportunities for growth. Oxfordshire’s strengths in these industries are centered on our numerous cornerstone assets, including universities, research institutions, science and technology parks, as well as our strong business base. Oxfordshire’s unique strengths and capabilities in these industries are of strategic importance to the UK.

These industries and the technologies that underpin and enable them are converging – innovation in one sector unlocks new opportunities and potential in another, such as the links between cryogenic technologies and healthcare, space, automotive and energy. The convergence of technologies will unlock new industries and global markets in the future, in which Oxfordshire is best placed to be world leading. These industries and technologies, and the future industries that will stem from the convergence between them, will be transformative and shape the world around us.

Oxfordshire is at the forefront of innovation in these industries but faces stiff competition from around the globe from other leading innovation ecosystems. If the UK is to continue to be a world-leader in science and technology innovation, it needs to invest in the Oxfordshire innovation ecosystem to support Oxfordshire’s industry clusters to continue to compete internationally.

Oxfordshire’s breakthrough businesses and industry clusters deliver additional benefits for other areas across the UK – including for cornerstone businesses both in Oxfordshire and in the rest of the country. This happens both through collaboration in the development of technologies and innovation, and through the manufacturing and supply chain opportunities that arise from the innovation in Oxfordshire and the high-value jobs that these opportunities create. Developing and investing in Oxfordshire will therefore deliver growth not just for the region but also across the UK.

Oxfordshire’s life sciences cluster is one of the largest in Europe and is home to world-leading research and teaching and the development of ground-breaking new technologies. The cluster is home to an estimated 180 companies in R&D and more than 150 companies in associated industries. The cluster’s excellence is

1 OxLEP (2019)
2 Scaleup Institute (2020)
3 HATCH Regeneris (2019)
driven by exceptional scientific and research expertise, with over 10,000 employed in scientific R&D and healthcare related manufacturing. The proportion of R&D is over four times the national average. Oxfordshire has a well-establishing and growing base of innovative companies operating in digital health – an area of considerable strength that benefits from the crossovers with other local sectors of expertise such as sectors and instrumentation, satellite applications and high-performance computing.\textsuperscript{4}
Employment by occupation:

Broadly speaking, the dichotomy in the Oxfordshire labour market appears to be skill shortages centred on higher value-added job roles and labour shortages centred on lower-value added job roles.

The clear story is that job growth has been focussed on knowledge-intensive, STEM and technology professional, associate professional and technician roles as well as managerial and senior leadership roles in Oxfordshire between 2004 and 2020. In striking contrast, there has been a contraction in employment across every other SOC Major Group occupational category, including Major Group 5 (Skilled Trade Occupations), Major Group 7 (Sales and Customer Service Occupations) and Major Group 8 (Process Plant and Machine Operatives).

In Oxfordshire the main occupations of employment are high skilled Professional, Associate Professional and Technical roles which the area’s specialist research and development sectors need. 'professional, scientific & technical' represent the largest single grouping at 21.2% of VAT and PAYE based

Source: Annual Population Survey, October 2019 - September 2020, 2020 SAP boundaries
enterprises by sector... This notably eclipses the proportion of firms in sectors with typically large levels of employment such those in the ‘retail sector’, standing at 5.5% of the total, along with that of businesses in the ‘accommodation and food services’ sector, which is only 4.9%. ...As of March 2020, Major SOC Group 2 (Professional Occupations) constituted the single largest occupational category of employment in the county at 29.9%. According to the data, between December 2004 and March 2020 professional occupations in Oxfordshire had notably increased by 7.6%, more than any other SOC Major Group.¹⁵

There are also high levels of managers, directors and senior officials which are needed to oversee these often high-tech organisations. These three occupation groups combined account for just over half (58%) of the occupations 8% higher than nationally, where only 50% of occupations are these high skilled roles requiring high level qualifications. However, ‘there has been a surprising fall in the number of professional jobs in Oxfordshire over the last five years relative to national figures with a 2% fall since July 2019. Occupations growth has concentrated around managerial, associate professional and sales and customer services.’⁶ A further 12% of occupations are relied on to support these other occupations in the form of administration and secretarial roles.

‘The greatest shortage of workers is currently within elementary occupations’, which are struggling to recruit ‘the right type of workers’ into this sector. This is worrying, considering the high proportion of overseas workers who currently work in elementary occupations across the South East, whose long-term future is uncertain due to the UK leaving the European Union. Additionally, there has been a reduction in the number of elementary occupations across Oxfordshire over the last five years. ‘There was a reduction in the percentage of job roles labelled under Major SOC Group 9 (Elementary Occupations) in the Oxfordshire labour market, declining 2.3% between 2004 and 2020 from 9.2% to 6.9%.⁸ The economy relies less on lower skilled jobs and occupations growth has concentrated around managerial, associate professional and sales and customer services’.⁹ There is minimal requirement for process, plant and machine operators and other elementary occupations.

‘Through examination of data that more directly reflects employer demand for skills, namely that derived from online job advertisements, it becomes apparent that quite a number of major group occupations that have contracted in the Oxfordshire labour market in recent years continue to be in very high demand by local employers. These include job roles in nursing, social care and cleaning. The discrepancy with respect to these roles would appear to be that they are representative of more acute labour shortages.’¹⁰ This is unlikely to be a skills gap but rather a labour gap in the Health and Social care sector, as job analytics have consistently held Nurses and Care workers and care home workers as the most in demand occupations consistently across the time span of the pandemic.

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¹ Oxford Artificial Intelligence Ltd (2021)
² HATCH Regeneris (2019)
³ Elementary occupations consist of simple and routine tasks, which typically require the use of hand-held tools and some physical efforts. Examples include street vendors, domestic helpers and cleaners, building caretakers, window cleaners, porters and garbage collectors.
⁴ Oxford Artificial Intelligence Ltd (2021)
⁵ HATCH Regeneris (2019)
⁶ Oxford Artificial Intelligence Ltd (2021)
The distribution of Enterprise by employment size band is almost identical to that of England, with 99% SMEs, being largely comprised of micro sized businesses (89%). Organisations classified as large (250+ employees) are only represented by just over 150 businesses in Oxfordshire, similar to most other South East region LEP area, with minimal representation of headquarters in the area, unlike neighbouring Thames Valley Berkshire LEP which have nearly double the number (1%) large enterprises.

‘Oxfordshire is home to thousands of great businesses and is one of the strongest engines for growth in the UK. With over 31,000 VAT registered businesses across a broad range of sectors. Oxfordshire has a well-balanced, resilient economy which has been instrumental to its track record of continued growth. However, many firms continue to struggle to grow to scale and do not translate ideas into business growth as well as some other competitor locations.’

Oxfordshire has the highest intensity of university spin out companies in the country. The University of Oxford continues to generate more spinouts than any other university nationally. Between 2014 and 2015, a total of 136 spin-out companies generated approximately £147m of GVA, supporting 2,421 jobs in the Oxfordshire economy.\(^{11}\)

\(^{11}\) OxLEP, Local Industrial Strategy (2019)
Business birth and death rates

Over time (2015-18) births of new enterprises fell in Oxfordshire by 1%, at a slightly reduced rate to that in England (nearly 2%). During the same time period there was no real change in the proportion of business deaths in comparison to England where the number of businesses failing increased minimally (under 1%). Therefore, the survival rate of new businesses in Oxfordshire could be seen to be higher than that seen nationally.

During 2020 when business across the world were impacted by restriction in place to prevent the spread of COVID-19, Oxfordshire start-ups were seen alongside business deaths. In line with the need for retail to continue to support the population during restrictions, the top 3 sectors for start-ups were in the retail (10%), with real estate activities (7%) next highest (this could be due to continuing construction in the area and the need for higher level of working from home with Oxfordshire easily commutable from London and other major cities). Food and beverage service activities also saw 5% start-ups, perhaps also linked to the higher requirement for take-away food and changing needs of a population under restricted access to restaurants enabling entrepreneurial ideas to develop. However, the highest proportion of closures were seen in activities of head offices, perhaps linked to closed down enterprises during lockdown and the ability to develop wider home working lessening the need for head office facilities and services. The second highest enterprise deaths were seen in computer programming, consultancy and related activities. Automation may have contributed to this. Interestingly 7% of retail enterprises closed, despite this being the highest area of start-ups. Perhaps this is due to the inability to evolve to changing needs of the population through restrictions. There were similarly 6% closures in office administrative, office support and other business support activities. This is likely due to the evolution of many office-based business moving to on-line technology to enable most employees to work from home meaning many of the administrative/support tasks are suspended or roles evolved to enable less support for individuals. The majority of closures were seen in ‘other’ sectors where numbers for each sector were minimal.


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12 ONS (2019)
13 Oxfordshire County Council, Digital, Information and Learning, Library Support Service (2021)
Employment rate and level

Currently employing 350,400 people, with 85% employees and 15% self-employed. Oxfordshire has held a consistently strong employment rate over time, ranging between 5 and 8% higher than the trend for England over the last ten years. Particularly in the more recent years, Oxfordshire has enjoyed a higher employment rate than all other South East region LEP areas which average around 3% higher than national employment rates.

Oxford City district has the strongest employment rate, providing employment for 25% of the Oxfordshire total employed with a much lower rate in West Oxfordshire district (16%). Cherwell and West Oxfordshire has the highest percentage of employees with only 11% and 13% respectively employed on a self-employed basis. Self-employment is strongest in the other three districts at 18-20%.

In Oxfordshire the highest levels of economic inactivity exist in Cherwell district at just below national proportion and just above that seen in the rest of the South East region. In Cherwell there is a high proportion of people classed as long-term sick. 5% higher than the national average and 8% higher than that seen in the rest of the South East region.

There is also a slightly higher proportion of students in this area than seen nationally and regionally and although data isn’t available for Oxford it is expected due to the location of the two universities, particularly the expanse of Oxford University in Oxford City centre, that this would be higher than national and regional. The rent in Cherwell for students would be more affordable than in Oxford City hence some students may choose this area to commute to Higher Educational establishments in the city of Oxford.

Source: Annual Population Survey, 2020 SAP boundaries
Oxfordshire has been a strongly performing economy in recent years, with strong economic growth across a range of high-value sectors. Oxfordshire’s recent growth has largely been concentrated in higher-value sectors typically requiring degree-level (or higher) qualifications. Sectors with a higher concentration of activity in Oxfordshire compared to nationally, include education (and particularly Higher Education, ICT, professional services, life sciences, motorsport, digital (particularly data & software) and science instrumentation). Productivity in Oxfordshire has been growing strongly in recent years and has followed a similar trend to the UK until 2015, when it began to fall behind the UK and still lags behind comparator areas. There is the potential for some improvement to match levels seen in comparator areas (e.g. Thames Valley Berkshire and Enterprise M3).

However, despite Oxfordshire’s many strengths, it has low productivity relative to many peers. Whilst the region’s productivity per hour worked is above average for England, in recent years it has fallen below the south east. However COVID-19 may have impacted the ability for Oxfordshire to increase this in the near future. Total weekly hours worked, for the 12 months ending September 2020, varied between London, with 147 million hours worked and Northern Ireland, with 26 million hours worked; the South East saw the largest decrease in total weekly hours worked compared with the same period last year, down 13.2 million hours per week.

Reforming further education, so it supports people to get the skills our economy needs throughout their lives, wherever they live in the country, will increase productivity, support growth industries, and give individuals opportunities to progress in their careers. Ensuring government has up-to-date and expert advice on the labour market and national skills gaps has been identified as essential by Government. OxLEP Skills Advisory Panel includes a member of the newly formed Skills and Productivity board, so can directly support the analysis of national skills to inform central government policy. This analysis addresses the most pressing gaps in our knowledge of the labour market. Building on existing evidence, it will consider which skills and training add the most value to the economy, where the skills mismatches are both now and in the future, and which courses return the best earnings for young people and adults.

Earnings are generally strong, although a comparison of residency based and employment-based data suggest high levels of in-commuting to local cities (e.g. Oxford, Reading, Slough and London). House prices continue to be high in Oxfordshire, with the average house now costing 10.2 times the average resident earnings. This ratio is considerably higher within Oxford ring road with house prices 17

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14 Hatch Regeneris (2019)
15 OxLEP (2019)
16 ONS (2021)
17 DfE (2021)
times local earnings. The unaffordability of housing, particularly in an area with a high number of graduates, presents challenges in graduate attraction and retention from local further and higher education institutions. There are ambitions to deliver 100,000 new homes across Oxfordshire by 2031 as part of the Oxfordshire Housing and Growth Deal, agreed with government in 2017.

Despite the area’s recent economic success, not all sections of society have been able to benefit from the increasing success of the area. There are areas of persistent labour market deprivation, particularly relating to education, skills and training. This is most prominent in the City of Oxford, where 40% of local geographies are among the bottom 50% most deprived nationally.18

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18 Hatch Regeneris (2019)
Earnings have remained strong for both residents and those commuting into Oxfordshire, as a workplace, in comparison to the rest of England. Many of the roles in Oxfordshire are graduate level positions demanding higher salaries commensurate with qualifications. The labour market has been consistently tight so employees can demand higher salaries.

Oxfordshire traditionally had mixed patterns of commuting, heavily influenced by the City of Oxford in addition to Reading, Slough and London. Areas to the North and West of Oxford, typically have high levels of out-commuting to Oxford, whereas areas to the South and East of Oxford have high levels of out-commuting to Oxford as well as Reading, Slough and London. Nearly a quarter of people in South Oxfordshire work outside of Oxfordshire. However, it remains to be seen if we will see the high levels of out-commuting once it is safe to return back to office after the pandemic. Or whether, there is a hybrid of working from home with the occasional day in the office.

Incomes for those living in Oxfordshire are above the national average by 13%, with the average full-time worker earning £34,400. Apart from the City of Oxford, residents in the other Oxfordshire local authorities earn more than those non-residents, whose place of work is in those areas. This reflects the high level of out-commuting from these local authorities into the City of Oxford, where the average worker earns £35,500. ¹⁹

¹⁹ Hatch Regeneris (2019)
ONS forecasts suggest that, under the status quo scenario, Oxfordshire’s population will grow slowly over the next twenty years (from 678,000 in 2016 to 720,800 by 2036). However, this expansion is expected to be driven entirely by a rising over-65 population. The county’s 15-64 population is expected to fall by 0.3 per cent per year for the next twenty years (compared to an England-wide growth rate of 0.1 per cent), while the over-65 population will rise by two per cent per year (compared to 1.9 per cent per year). This is compounded by lower graduate retention rates in Oxfordshire than places like London or Manchester, despite high-paying firms reporting difficulty recruiting.

Oxfordshire has an increasingly ageing population, which has accelerated over the last five years. 40% of Oxfordshire’s population are in the latter years of working life (50+). 60% of Oxfordshire’s population are currently over the age of 35. Only 13% are those young people, at that start of their working careers, likely to have the level of qualification demanded in the area who will be the replacement workforce of the near future.

There are now 3% more people living over the age of 65 in Oxfordshire compared to ten years ago. By comparison, there has been a similar decrease in the number of people aged between 16-24 and 25-49 over the last ten years. This is a critical challenge facing the area, with one of the key issues likely to be the area’s unaffordability for younger people.

Oxfordshire’s ageing population and the population decline of those aged between 16 and 49 should be a concern, particularly if Oxfordshire is going to continue supplying the labour force demand by employers into the future. Encouraging more young people to move to and stay in Oxfordshire is important to ensuring a strong supply of labour for the future. Retention of graduates will be key to this, especially given the strong academic qualifications many of them have obtained and the connections they have made in the area. Having an attractive offer to encourage young people to stay, including affordable houses and graduate-level jobs will be key to achieving this.

Population growth in Oxfordshire over the last ten years has lagged behind the national and Oxford-Cambridge Arc, with growth now 2 percentage points behind the growth experienced across the Arc over the last ten years. Of concern, is the slow growth in the overall working age population (as referenced above), which now lags considerably behind the Arc’s growth rate.\textsuperscript{20}

\textsuperscript{20} Hatch Regeneris (2019)
Claimant Count and Alternative Claimant Count

Source: ONS claimant count & DWP Stat Xplore, January 2013 – November 2020, 2020 SAP boundaries

Claimant and Alternative Claimant have followed a similar trend to the pattern seen nationally over time with the most dramatic rise seen following the onset of COVID-19. In October 2019 the rate per population in Oxfordshire was 1.4%. The area has seen a tripling in claimants during the COVID-19 pandemic and in December 2020 it stands at 3.8%, having seen some reductions over 1000 claimants during the period. However, the rate per population has remained below that seen nationally throughout the COVID-19 pandemic.

The most dramatic increases saw counts in Oxfordshire increase between March 2020 and May 2020, by 10,845 or 163%. This was above each of the increases across England (+114%) and the South East (+150%). As of May 2020, there was a total of 17,500 claimants of unemployment benefits in Oxfordshire. This was 5,350 above the previous month (12,150 in April 2020). The long-term trend showed a much sharper increase than in 2008/9 during the last recession. The increase in the number of claimants between March 2020 and May 2020 was highest in South Oxfordshire district. The rate per population remains highest in Oxford (4.33) and Cherwell (4.32). However, the rate remained lower than national at 6.48.

As of 31 July 2020, there were 103,000 employed people in Oxfordshire supported by the COVID-19 Job Retention Scheme (JRS i.e. furlough). The take up rate, of eligible employments, in the county was 29%, just under the regional and national averages (30% across the South East and 32% in England).

Latest counts for December 2020 show a reduced total of 16,640 claimants in Oxfordshire, 300 above November 2020 but below the highest count in August 2020. This was equivalent to a rate of 3.8%, lower than the national rate of 6.4%. In the previous year, December 2019, the claimant rate per population was 1.4% in Oxfordshire, some 2.36 percentage points lower than the current 3.8%. Oxford has the highest rate (4.4%), followed closely by Cherwell (4.1%). Rates in other areas of Oxfordshire falling between 3.3% and 3.6%. All rates are below the national rate of 6.4%.21

Local intelligence suggests that there will be a large number of older working age population who have been made redundant or are currently at risk of redundancy following the end of the CJRS scheme in April 2021. This contingent may not ever be included in these claimant statistics and notifications of redundancies as they are often small group or individual redundancies within an organisation, not meeting the criteria for HR1 redundancy notifications. Many of these redundancies will be amongst a generation who prefer not to claim, making use of temporary agency work until a more permanent position can be found and or choosing to cover retraining and reskilling costs themselves without Government support.

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21 Oxfordshire County Council, Oxfordshire Insight (2020)
NEET numbers are rising. Prior to COVID-19 there were 500 people on average across Oxfordshire recorded as Not in Education, Employment or Training (NEET), accounting for around 4% of young people aged 16 or 17. This number had declined in recent years and was sitting below levels experienced in neighbouring Buckinghamshire and Reading.

In July to August 2020 there was a 25% increase overall in casework open to Oxfordshire County Council EET team compared to 2019 and a 60% increase in general enquiries to EET referrals inbox and phone calls, of the enquiries approx. 40% were in relation to Year 11 leavers.

In September 2020 onward the EET Team have seen 35% increase overall in casework open to the team compared to 2019 and 40% of the cases currently open to us are Year 11 leavers from this year.

Latest NEET data from October 2020 to end November shows a 24% increase overall in casework open to our team compared to 2019 with 47% of the cases currently open are Year 11 leavers from 2020.

The EET Team report that 2020 school leavers experienced a lack formal careers guidance, ending and transition into next destinations. Some school leavers now lack confidence, lack motivation and are anxious about their future – there is increased competition for employment and apprenticeships. Current Year 11 learning is disrupted with closures and isolations. There is a focus on core curriculum delivery, missed access to softer employability skills and extra-curricular activities and future ambiguity are impacting adversely. There are greater proportions of NEETs currently and a lack of flexible provision start dates and appropriate offers of EET learning. There is a lack of EET opportunities to match current need (apprenticeships, employment). A rise in Elective Home Educated students from schools and higher numbers without qualifications has been seen, with increased anxiety and isolation.

High concentrations of NEET can be found in Oxford City, Cherwell and Witney with over 270 of those classed as not having significant barriers to becoming EET scattered across the county’s rural areas.

Whilst we have seen a c300% increase in unemployment as a consequence of COVID-19 the ongoing tiering, lockdowns and the extension of JRS make it difficult to plot the full impact of COVID-19 on unemployment in this iteration. Given the extension of JRS we continued restrictions we would envisage the full impact of COVID-19 will not become apparent until much later in the year – certainly well beyond September.

Age related CJRS data are available at the national level. In terms of demographics, the young and old have been hit hardest according to JRS statistics, with a higher proportion of claims being made in the 16-24 and 65+ categories than other age groups. 24% of claimants are over 50. Importantly, older citizens have been hit harder proportionally than other previous economic recessions. Demographics and welfare changes may also have an impact here. This is particularly concerning given the barriers to training and employment in existence for older people.

In general, the youth unemployment rate sat around 4% for Oxfordshire in December 2020, but there’s quite a bit of variation when looking at finer age groups/ individual Districts. Cherwell has the highest rate of Youth unemployment at 5.6%. For the 16-24 age group, Oxford (2.4%) shows a lower claimant % than other Districts due to its high student population.

Three of Oxfordshire’s most dominant sectors, Manufacturing, Real Estate and Wholesale/Retail are on par with the UK average JRS take-up, while Health and social work and Education have been less hard hit.

Locally, the data shows that Cherwell and West Oxfordshire have seen the highest take-up of JRS, while the Vale of White Horse has shown the lowest. Overall, all local authorities had between 24 per cent and 31 per
cent in July, this rose in August but has since fallen significantly in September. Take-up of the JRS in September ranges from 9 per cent to 11 per cent, with only Cherwell and West Oxfordshire above the national average. The Arts/Entertainment/Recreation sector is strongly represented in West Oxfordshire, which can explain the greater JRS take-up rate there, whereas Cherwell has a significant proportion of the Oxfordshire’s more deprived areas, with lower skilled jobs which have been affected disproportionately by the pandemic.

On those sectors in which people have returned to work, the national data indicates that a large proportion of those in most industries have returned to work. However, the percentages of those returning to work in Arts/Entertainment/Recreation and Accommodation/Food Services have been well below 50 per cent. These sectors are still struggling and are those subject to the most immediate impacts of further lockdown measures. These sectors are clearly those that require the most support - both immediately and going forward as the transition to renewal develops.  

28 BICS Survey (2020)
Around 27% of local geographies across Oxfordshire are among the 10% least deprived areas nationally, with 83% of local geographies among the top 50% least deprived geographies nationally. However, challenges remain, particularly in the City of Oxford where 40% of local geographies are among the bottom 50% most deprived nationally.

Deprivation as a whole is concentrated in the South of Oxford City and Banbury. All areas have neighbourhoods that fall in the top 10% for Education, Skills and Training, but this is particularly notable in Cherwell and Oxford where 10% of their neighbourhoods are in the 10% most deprived nationally. The City of Oxford performs particularly poorly on the Social Mobility Index for Early Years and Schools, ranking 306th and 300th respectively out of 324 local authorities nationally. The Ofsted rating of Oxfordshire’s school is two thirds of the 36 state-funded secondary schools ‘good’, but only 16% of secondary school rated as ‘outstanding’. Ensuring these residents can access education and training opportunities relevant to those sectors growing locally will be important to create inclusive economic growth.²⁹

²⁹ Hatch Regeneris, 2019
Skills Supply
Skills Supply – Summary

**Oxfordshire businesses are underpinned by a highly skilled workforce:**
- Over half (51%) of its population qualified to degree-level or above
- All districts in Oxfordshire exceeded the national average for the proportion of the population with NVQ4 in 2017
- There are fewer people in Oxfordshire with no qualifications than nationally
  However
- One quarter of Oxfordshire’s population with Level 1 or unqualified are resident in Cherwell
- 24,000 students who reside in Oxford City are economically inactive or unemployed

**Further education Skills Achievements 2019/20**
Achievements in funded Adult Education and Training fell by 27% on the previous year with a reduction of over 2500 achievements, mainly through Preparation for Life and Work.

<table>
<thead>
<tr>
<th>Increases in FE Achievements</th>
<th>Decreases and under-representation of FE Achievements in the last year</th>
</tr>
</thead>
<tbody>
<tr>
<td>+30% Health, Public Services and Social care achievements</td>
<td>STEM Subjects</td>
</tr>
<tr>
<td>+45% Retail and Commercial Enterprise achievements, specifically within Hospitality and Catering and Retailing and Wholesaling</td>
<td>Science</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Over representation of FE Achievements</th>
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</table>
- Students are increasingly choosing to take-up Language, Literature and Culture at much higher proportions than Science and Information and Communication Technology.
- Students still choose Sport, Leisure and Recreation over more relevant Travel and Tourism subjects

**Apprenticeships Achievements 2019/20**
In common with the rest of the country, the number of apprenticeships undertaken has declined over the last four years. This must be seen in the context of poor national performance, with the introduction of the Apprenticeship Levy dampening employer demand for apprenticeships.

<table>
<thead>
<tr>
<th>Under-representation of Apprenticeship Achievements in the last year</th>
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</thead>
<tbody>
<tr>
<td>STEM Subjects</td>
</tr>
<tr>
<td>Science</td>
</tr>
</tbody>
</table>

NB. **Traditional gender role beliefs were significant in both FE and Apprenticeship Achievements**, for example, in Construction and Engineering and Manufacturing, male achievements dominated over female whilst female achievements were more notable in Health, Public Services and Social Care and Teaching and Education. Only 44% of Apprenticeship Achievers aged 16-24 were female in contrast to 62% in achievers aged 24+. 
Higher Education Achievements

HE qualifiers align well with the economic specialism of the area. Both the local universities play a key role in the areas specialist sectors. Business support and growth alongside STEM subjects, particularly medicine, biological, physical and mathematical science will support the development of these fast growing, internationally recognised specialisms and the research and development strength of Oxfordshire. Graduates from the University of Oxford undertake a range of activities, with many of those from the University of Oxford continuing to stay in academia and full-time education.

Learner Destinations

Most learners, move directly into sustained employment at larger proportions than nationally. Importantly, most KS4 and KS5 learners remain in education, employment and training (EET) although NEET statistics in the area have risen sharply as a result of COVID-19 and youth unemployment has also increased amongst 16-24 age band. However, 93% of apprentices in Oxfordshire transition to sustained employment. In 2018/19 Higher (level 4+) Apprenticeship courses led to 100% sustained employment.

Notable Supply Challenges and Barriers

The value of technical qualifications may not be seen as equal to a degree by employers. Stronger employer engagement in the development of new T-Levels and Apprenticeships could help raise this view. ‘Skills’ was identified as the second most important issue to enabling growth in businesses associated with net carbon growth and development. While access to skilled employees scored highly, apprenticeships was not identified once by any respondent.

Graduate retention - Initially over a third of graduates remain resident in the area with a further quarter moving to London. There is then a strong trend for movement from the South East to London after the first year after graduation and over the course of 5 years. Attractive salary opportunities in other areas, the unaffordability of housing, particularly in an area with a high number of graduates, presents challenges in retaining those graduating from local further and higher education institutions.

T-Levels are being introduced initially at two of the main FE providers from 2021 with a limited subject roll-out, in line with Government policy. With an 84% employee make-up of Micro-businesses, capacity to support work and industrial placements is tight and further amplified by COVID-19 restrictions and employers reporting confusion and lack of understanding of the changes in the Skills landscape.

Oxfordshire has the highest levels of service children in primary and secondary schools (3055 children across 200 schools) compared to eight other regions in the South East. Many Service children are still disadvantaged in their access to and experiences through education and less likely to transition to HE.

Employer Provided Training

Over two thirds of Oxfordshire employers provided a combination of off-job and on-job training over the last 12 months and above that provided nationally but just over one third of employers provided no training at all (although this is relatively low compared to nearly 40% nationally). 80% of employers in Oxfordshire provided between 1 to 6 days training with the main allocation being 3 to 4 days. The number of days provided by employers should be improved and higher proportions of staff should receive them. The ongoing impact of COVID-19 is likely to have affected this provision given the wider economic uncertainty.
Qualification levels

Oxfordshire’s recent growth has largely been concentrated in higher-value sectors typically requiring degree-level (or higher) qualifications. Oxfordshire has one of the highest skilled workforces in the country, with over half (51%) of its population qualified to degree-level or above (compared to 40% nationally). This has continued to grow over the last five years, with a five-percentage point increase since 2013.

All districts in Oxfordshire comfortably exceeded the national average for the proportion of the population with the highest level of 51 qualifications — NVQ4 — in 2017.

There are fewer people in Oxfordshire with no qualifications than nationally (accounting for only 5% of all residents), other qualifications (3%) or qualifications below level 4 (37%).

One third of residents with Level 3 qualifications are resident in Oxford local authority area. Whilst one quarter of Oxfordshire’s population with Level 1 or unqualified are resident in Cherwell local authority area. The City of Oxford has one of the lowest levels of workers with no qualifications, at 3% per cent, compared with a UK average of eight per cent, yet also contains a high proportion of the workforce with low skills and qualifications.

Oxford local authority area also has highest proportion (55%) of employed full-time students. There are also 24,000 students who reside in Oxford who are economically inactive or unemployed, whilst other areas of Oxfordshire have much lower proportions between 8% and 13%.

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30 NOMIS, Census (2011)
FE Education and Training Achievements

2019/20 achievements in funded Adult Education and Training fell by 27% on the previous year with a reduction of over 2500 achievements, mainly through Preparation for Life and Work.

Analysis of data by Sector Subject Achievements

One fifth of funded FE Adult Education and Training achievements in 2019/20 were in Health, Public Services and Social Care. Oxfordshire continues to see increasing demand for skills and labour in this sector, so it is positive to see that (consistently with national reporting) achievements have risen by 30% on the previous year. Most of these increases have been in:

Health and Social Care
Child Development and Well-being
Nursing and Subjects and Vocations allied to Medicine
The positive impact of COVID-19 on Heath and Care careers in the NHS and Care Services will likely further increase take-up of these types of courses. However, Medicine, Dentistry and Public Services learning aims have lower achievements.

The area has a strong Visitor Economy due to the historic location of Oxford University, Blenheim Palace and Bicester Shopping Village however, achievements in Leisure, Travel and Tourism have fallen by 50% in the last year with:
- minor achievements in Travel and Tourism subjects
- most achievements in Sports, Leisure and Recreation
There has, however, been 45% increase in Retail and Commercial Enterprise subject achievements, with increases more specifically within:
- Hospitality and Catering
- Retailing and Wholesaling
STEM-related achievements are under-represented, given the economic specialisms of the area. Local colleges report this as take-up or choice of subject by students, rather than under-representation of provision. Students are increasingly choosing to take-up Language, Literature and Culture (up 55% in the last 3 years) at much higher proportions than Science and Mathematics and Information and Communication Technology:

Whilst Science and Maths achievements have risen by 20% this has been within Mathematics and Statistics with very few achievements in Science (down by 50% in the last 3 years)
- Engineering and Manufacturing Technologies have fallen by over 30%
- ICT has fallen by 50% with achievements mainly in ICT for Users rather than ICT for Practitioners
Despite having two leading universities in Oxfordshire, the achievement at FE level in Education and Training pathways is very low and has reduced by 40% on the previous year.

The area also has 99% Small and Medium Enterprises (SMEs) and high levels of start-up/spin-off businesses from the two universities so high take-up in Business, Administration and Law would be expected. However, over the last 3 years achievements in:
- Accounting and Finance have fallen by over 50%
- Business Management have fallen by over 40%
- Law take-up is minimal
After a 25% fall in Arts, Media and Publishing in 2018/19, numbers are now returned to just over the numbers achieved in 17/18.

In Construction and the Built Environment, Engineering and Manufacturing there is 50% reduction in achievements on the previous year, despite the local growth deals and planned local construction projects, the Oxford-Cambridge ARC development and local specialist development of Green Technology.
In the last 3 years:
- Building and Construction achievements have fallen by over 60%.
- All subjects within engineering and manufacturing technologies have fallen by between 40% and 60%.

Other detailed analysis of the FE Education and Training Achievements can be found in Annex B
In common with the rest of the country, the number of apprenticeships undertaken has declined over the last four years (see Annex B), with 22% less apprenticeships started in 2017/18 compared to 2014/15. This must be seen in the context of poor national performance, with the introduction of the Apprenticeship Levy dampening employer demand for apprenticeships. An increased take-up of vocational courses and apprenticeships locally, particularly at higher levels, could do much to address technical skill shortages.31

Analysis of Apprenticeship Achievements by Sector Subject:

The distribution of achievements by sector subject is a similar reflection of national achievements. Most of the areas’ economic specialisms are represented in the top apprenticeship achievements, demonstrating how these qualifications which provide more on the job training align with the areas’ skills need. Oxfordshire’s top apprenticeship achievements are in: Business, Administration and Law Health, Public Services and Care

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31 Hatch Regeneris (2019)
However, the area’s Visitor Economy is not as well represented as it could be, given that Oxfordshire attracts 32 million visitors a year, generating £2.3 billion into the local economy and supports 39,000 jobs locally.

Given the area’s specialisms there is greater need for STEM and ICT achievements as these are the specialist skills reported through employer focus groups as gaps. Raising awareness of local labour market demands to teachers, career advisors and young people could encourage stronger take-up and the ability for employers to reform the standard models in these subjects could bridge the gap needed. Low achievements persist in Education and Training Apprenticeships (as they do in FE achievements) despite government policy to drive higher levels of on the job training in teaching.
HE Qualifiers

HE Qualifiers generally align well with the economic specialism of the area. Business support and growth alongside STEM subjects, particularly medicine, biological, physical and mathematical science will support the development of these fast growing, internationally recognised specialisms and the research and development strength of Oxfordshire. Historical and philosophical studies are historical specialist subjects for Oxford University and continue to qualify a substantial 7% greater than nationally. There is also strength in Architecture, building and planning compared to nationally. Given development and growth plans for the area, particularly with the development of the Oxford-Cambridge ARC this should be further strengthened. Law is an underrepresented employment sector in Oxfordshire yet the numbers qualifying is higher than nationally.
Languages qualifiers are significantly (5%) higher than nationally. Given Oxfordshire’s renowned leadership internationally in many of its specialist fields, strength in language qualifiers will be welcome.

**Despite the area’s specialisms, computer science and engineering and technology fall below those qualifying nationally.** In parallel to FE courses, creative arts and design qualifiers fall some 5% below those nationally. In parallel with national qualifiers 0% qualify with combined qualifications.

**Both the local universities play a key role in the areas specialist sectors.** For example, at University of Oxford over 200 academics groups are involved in energy research linked to the aspirational low carbon, green activities of the area. Creating the next generation of talent is not the preserve of the engineering or the materials sciences departments, it is distributed throughout the university and across faculties. The MSc in Energy Systems is an exemplar of this approach – a cross-disciplinary course which draws together science and social science to explore all aspects of making energy, the market, regulation and policy fit for a net zero future. Oxford Brookes University has deep technical expertise in materials technology development, both for buildings and vehicles, bringing together large cross disciplinary teams comprising engineering, architecture, industry-facing scientific research and product innovation.

When surveyed, employers involved in businesses associated with net carbon growth and development identified Skills as the second most important issue to enabling growth. While access to skilled employees scored highly, and was an issue identified through interviews conducted as part of this project, apprenticeships was not identified once by any respondent. 32 **The value of technical qualifications and academic degree qualifications may not be seen as equal by employers.** Stronger employer engagement in the development of new T-Levels and Apprenticeships could help raise this view.

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32 Advanced Oxford (2020)
94% of Oxfordshire’s KS4 leavers remain in education, employment and training (EET) as per the national picture. The number of KS4 leavers who transition into further sustained education has fallen this year by 3% (84%) but this decrease has been filled by more leavers transitioning into apprenticeships or sustained employment. 5% (up 1%) now move directly into employment, 2% greater than nationally, ensuring that less, KS4 leavers are NEET (not in education, employment or training).

Oxfordshire has the highest levels of service children in primary and secondary schools (3055 children across 200 schools) compared to eight other regions in the South East. There are substantially high average numbers of Service children per school with these school’s averaging 15 Service children each.

Many Service children are still disadvantaged in their access to and experiences through education as a result of a parent serving in the Armed Forces. According to Study Higher, service children are less likely to go on to HE.

2020 school leavers experienced a lack of formal careers guidance around the end of their school careers and whilst transitioning into their next destinations. Year 11 study was disrupted through COVID-19 restrictions and there was a focus on core curriculum delivery. Students missed access to softer employability skills development and extra-curricular activities such as employer engagement and work experience opportunities. Some school leavers now lack confidence, motivation and are anxious about their futures, particularly as competition for employment and apprenticeships increases. COVID-19 has led to greater numbers of NEETs (not in Education, Employment or Training) as well as a lack of flexible provision start dates and appropriate offers of EET learning.

Unemployment increases amongst 16-24 age band nationally between March and September 2020 rose by 71.2% whilst Oxfordshire saw levels rise by 103% by October 2020. In 16-19 young people unemployment rose by 120.4%.

By November 2020 Oxfordshire OCC EET Team were seeing 24% increase in open casework for NEETs compared to 2019 and 47% of those open cases were Year 11 leavers from 2020. The longer young people

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The Service Children’s Progression Alliance (2020)
remain NEET, the more disengaged and unmotivated they become, leading to further mental health issues, increased offending behaviour, social isolation, debt, and housing issues. Current Year 11 students need focussed careers support and tight transitions, flexibility is required and school leadership buy-in to careers support and transition as a key priority. Growth and flexibility of post 16 EET opportunities at varying levels is paramount in meeting the growing demand, such as earlier preventative options, funding to support EET, better use of Labour Market Information in careers advice and guidance.\textsuperscript{34}

\textsuperscript{34} Oxfordshire County Council, EET Casework Team (2020)
**KS5 (16-18) destinations**

In parallel with national destinations, **KS5 students 88% will become EET after studying at Level 3**. The majority of these students enter further sustained education (48%). This is substantially lower than seen nationally (58%). However, the remainder don’t all become NEET, as a much larger proportion go on to sustained employment (34%) than nationally (23%).

**After studying at Level 2** (these qualifications are mainly apprenticeship, national certificate and awards, NVQs – often more practical than academic in design) **the majority go on to sustained employment (41%) in much larger numbers than nationally (33%) or a further sustained apprenticeship (12%). Corresponding with national destination data for those having studied at this level, a quarter will continue into sustained education.**

Those who have studied all other qualifications are also more likely to move into sustained employment (37%) than in other areas of England (25%). Just over a third of these students will move into either sustained education or an apprenticeship.

**Source:** *16-18 Destination Measures, DfE, 2018/19 (published 2020), 2020 SAP boundaries*
FE and skills destinations

Destinations of FE & Skills Learners in 2018/19 - Oxfordshire LEP

In Oxfordshire Adult learners are moving directly into sustained employment at much higher proportions (72%) than nationally (61%), and less continue into further sustained learning/any learning up to Level 3. In previous year’s data, Traineeships achieve substantially more movement into sustained employment than other areas (no data provided for Traineeships for Oxfordshire in this dataset).

At Full Level 3 much greater transition into learning is achieved (56% sustained learning and 62% any learning) as compared to nationally (42% and 52%).

With specific qualification types such as Level 1 and 2 ESOL much higher numbers, 61% and 68% respectively, transition into sustained employment than learning compared to 43% and 56% nationally, whilst lower numbers continue into further learning.

NB. No data is provided at Level 4+ and Not assigned for Oxfordshire in the dataset.
Apprenticeship destinations

Source: **FE outcome based success measures, 2018/19 destinations, DfE, (published 2020), 2018 LEP boundaries**

Increasingly apprentices in Oxfordshire transition to sustained employment (93%) mirroring the national picture at all Levels of Apprenticeship. In 2018/19 Higher (level 4+) Apprenticeship courses lead to 100% sustained employment in Oxfordshire, a rise of 11% on the previous year and substantially higher than nationally. There are slightly fewer apprentices moving into further learning than nationally at Advanced level. This is most likely because of the higher skill level required in many of the jobs in Oxfordshire. Specialist skills are currently a challenge for employers in Oxfordshire. Apprentices at this level in a tight labour market will not remain on the job market for long, preferring to earn whilst continuing to learn on the job rather than continue in learning. **Work readiness is the only reported skills gap in the area.**
HE Graduate Destinations

Graduate destinations for 2017/18 academic year

<table>
<thead>
<tr>
<th>Category</th>
<th>England</th>
<th>Oxfordshire</th>
</tr>
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<tr>
<td>Full-time employment</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Part-time employment</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unknown pattern of employment</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Voluntary or unpaid work</td>
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<td>Employment and further study</td>
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<tr>
<td>Other including travel, caring for someone or...</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unemployed and due to start work</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unemployed and due to start further study</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unemployed</td>
<td>4%</td>
<td>2%</td>
</tr>
</tbody>
</table>

% of graduates with known outcomes

Source: HESA, 2017/18 graduates (published 2020), 2020 SAP boundaries

Graduates who have studied at Oxfordshire Universities mainly find full-time (60%) or part-time (8%) employment, are due to start work (1%) or are in voluntary or unpaid work (2%), assimilating what happens in the rest of England. Only 2% are unemployed following graduation, just below the 4% seen nationally. A small group will transition into other activities such as travel or caring for someone as concurs with other graduates across England. More graduates move into further full-time study than nationally. This is likely linked to the strong research and development capacity of the Universities and the economic specialisms of the area.
Graduate retention

Source: Graduate Outcomes in 2017/18, DfE, (published 2020), 2020 SAP boundaries

The region is home to two renowned universities, and it is recognised that graduate retention and nurturing this supply of talent is key to future growth for the wider ecosystem. Across both universities the graduate retention rate is around 23% - placing the area in the mid quartile nationally, but behind other locations across the UK and internationally. Whilst access to high value employment is a key driver in retaining talent locally, proximity to London and higher salaries and the cost of housing are key challenges impacting improved graduate retention.

Graduates from the University of Oxford undertake a range of activities, with many graduates from the University of Oxford continuing to stay in academia and full-time education.

Initially over a third of students studying at providers in Oxfordshire remain resident in the area one year after graduation with a further quarter moving to London. Very small proportions of graduates move to the North East region, Scotland, Northern Island and Wales. The majority of graduates can be found residing south of the West Midlands. The most popular destinations for students include London, Oxford and the M4 corridor. There is then a strong trend for movement from the South East to London after the first year after graduation and over the course of 5 years.

The unaffordability of housing, particularly in an area with a high number of graduates, presents challenges in retaining those graduating from local further and higher education institutions. There are ambitions to deliver 100,000 new homes across Oxfordshire by 2031 as part of the Oxfordshire Housing and Growth Deal, agreed with government in 2017. Oxfordshire's ageing population and the population decline of those aged between 16 and 49 should be a concern, particularly if Oxfordshire is going to continue supplying the labour force demand by employers into the future. Relative to the rest of the Arc and nationally, Oxfordshire is falling behind its competitors. Encouraging more young people to move to and stay in Oxfordshire is important to ensuring a strong supply of labour for the future. Retaining graduates will be key to this, especially given the strong academic qualifications many of them have obtained and the connections they have made in the area. Having an attractive offer to encourage young people to stay, including affordable houses and graduate-level jobs will be key to achieving this.

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35 Hatch Regeneris (2019)
36 Hatch Regeneris (2019)
Employer provided training

Employers providing training over past 12 months, 2019

Source: Employer Skills Survey, 2019 (published 2020), 2019 LEP boundaries

Over two thirds of Oxfordshire employers provided training over the last 12 months and above that provided nationally. Over a third provided a combination of off-job and on-job training. Employers in the area provide more training than other employers in England with just over one third of employers providing no training at all.

In 2017 around 80% of local employers surveyed had mainly provided up to 10 training days with most providing 3 and 4 days in 12 months. This training was rarely provided to more than 70% of staff, with the majority of employers providing training for between 20% and 70% of staff.37

There must be continued encouragement for employers to invest in training at all levels: to promote training opportunities to employers to increase the number of workforce training days, particularly as training budgets are restricted due to ongoing economic uncertainty in the wider economy. This could include improved signposting to funding sources and relevant training courses, and support for businesses looking to unlock and share the Apprenticeship Levy locally.38

38 Hatch Regeneris (2019)
Skills Demand

Skills Demand – Summary

**Oxfordshire has a tight labour market.** Job postings reached a peak in Oxfordshire in July 2019. The impact of COVID-19 restrictions created a large slump in postings from March 2020, however, the level of postings has now climbed again to similar levels to the peak, suggesting a good deal of resilience in the area.

**Top employers:** NHS, University of Oxford and Oxford Brookes University, Value Retail Management (Bicester Village) Limited, Oxfordshire County Council, large supermarkets, hotel chains and care trusts

**Skills Demand:**
- Oxfordshire's historically strong sectors (see Local Landscape Summary) have been hit less hard by turnover decreases as a result of COVID-19 and there will be continued demand for new postings in these strong sectors.
- The area continues to demand management and director level professionals and candidates with a degree or higher qualifications and Level 4 qualifications.
- With local specialist sectors, recent training/qualification holds higher value than long term experience.
- There is continuing shortage of Health and Social care labour, Elementary occupations, Programmers and Software Development professionals.
- The need for employers to adjust and pivot their business models for growth or recovery linked to the COVID-19 pandemic is also reflected with pivoting skills demand in business development, agile methodology, risk analysis and mental health appearing frequently in posting requirements.

**Reducing Skills Demand:**
- Retail, Accommodation/Food and Arts/Entertainment are suffering heavy losses so likely to see declining demand for these skills initially. It is likely that redundancies in those sectors will lead to staff transitioning into other sectors where their skills remain relevant such as visitor economy to health and social care.
- Some of the previous top ten demanded occupations have fallen lower in demand, such as chefs and sales and retail assistants.

**Key Enabling Skills:**
The Oxfordshire Employer Skills Survey focus groups strongly highlighted that the overarching skills challenge can be framed around the need for the county to prioritise three particular sets of cross-cutting 'enabling skills:
- AI and Big Data Skills;
- Business and Digital Skills
- and Soft Skills.

These enabling skills have the capacity to facilitate productivity gains across three spheres of economic activity central to the county's future prosperity and delivery of quality public services.

**Top Skills Demanded in Job Postings:**
- Digital and IT Skills
- Soft Skills including Cognitive skills, Personal qualities and Common skills - all a strong reflection of the changing business landscape and evolving needs of employers.
- Demands include: analytical skills, scholastic and language skills, communication, organisation with planning, diligence and detail orientation and innovative thinking and creativity, management, customer service, sales, research and innovation, planning as well as enthusiasm and self-motivation.
Online vacancies

The area continues to see a longstanding labour shortage as opposed to a skills shortage in the health and social care system. With the increased demand in this sector to meet the challenges of the pandemic this is likely to be increased.

Job postings reached a peak in Oxfordshire in July 2019 when, according to EMSI, there were just under 38,000 unique vacancy postings with a posting intensity of 5:1. In the previous year there had been 34,000 postings at the highest point (July 2018). Postings in the area generally fall in December and reach their height in July.

However, the impact of COVID-19 restrictions has created a large slump in postings. They began falling in March 2020 at the start of lockdown to their lowest point in June 2020 when there were just over 23,000 unique postings and these were advertised more widely with an intensity rating of 7:1 in comparison to the previous 12 months when the posting intensity for the region averaged 4:1. This high intensity of postings has continued and remains at 7:1 (November 2020) although the number of postings has climbed again and remains at 7:1 (November 2020) although the number of postings has climbed again since June back to 32,000, some 6,000 higher than postings at this point in the year in both 2016 and 2017 and at a similar level to those of 2018, 2019. This suggests a good deal of resilience in the area.

In the last 12 months nearly half of these vacancies are posted as Oxford location, however many jobs in Oxfordshire are sited as Oxford location as the central city for the area and as a highly attractive area to live and work.

Cherwell has the next highest level of postings (18%) with Banbury as the main location, as business growth, particularly on sites adjacent to the M40 continue. West Oxfordshire has the fewest vacancies (10%). Other towns with high unique postings are Abingdon, Bicester, Didcot and Witney. This proportion of postings at locations across the area has remain unchanged from before COVID-19 and do not appear to have been affected. Abingdon area have a lower posting intensity suggesting that employers need to advertise the positions in this area less widely. In general posting duration is around 32/33 days. This has risen slightly since the previous year when the average number of days was 31. This could mean that employers are finding suitable candidates within one month of posting or that postings are withdrawn and re-advertised monthly (particularly where employers use recruitment agencies) or if employers are not finding suitable candidates within that time and withdrawing postings then they may need to reassess recruitment campaigns.

Source: Emsi-economicmodelling.co.uk (2021)
The top occupation postings in the last 3 years have been for nurses. These postings have been advertised widely (7:1 posting intensity in 2020) and have a longer posting duration (36 days) than the area’s median duration (32/33 days). This suggests a shortage of skilled nurses in the area. Employers looking for programmers and software development professionals have similar challenges.

In the last 5 years to 2017/18 there was greatest demand in the Education, Professional, scientific and technical, construction, business admin and support and heath sectors and negative demand for financial and insurance, public admin and defence and arts and other services.39

In line with national analysis (labour Insight) this year has seen changes to the top posted occupations to those need to fulfil local essential needs, such as HGV/LGV Drivers, Family support workers, care workers and home carers, van drivers, mechanical engineers and elementary storage occupations moving

39 Hatch Regeneris (2019)
into the top ten most demanded alongside the nurses, programmers and software development professionals, sales, accounts and business development managers that remain strongly demanded. Some of the top ten demanded occupations have fallen lower in demand, such as chefs and sales and retail assistants. These changes reflect the need for key workers and online shopping which have grown throughout the pandemic and the job losses being seen in wholesale and retail and accommodation and food services. A large proportion of top posted occupations this year have been for low skilled or elementary positions such as cleaners and domestics and other administration occupations.

Job posting analytics demonstrate that employers mostly seek those with a degree or higher (Level 4+) qualifications. Experience between 0 and 5 years is more sought after than 6 years or more. With the local specialisms it is likely that recent training holds higher value than longer experience.40

Employers say that they stay in Oxfordshire because they can build up a highly skilled workforce helped, but not reliant upon, proximity to Oxford’s universities. Some encourage university engineering students to take up year-long industrial placements as part of their course, as well as work in university holidays to gain experience. Many of whom return to the placement company as full-time employees after finishing their degrees. Access to talent is a common issue for all companies within the region, including the large companies interviewed for this research, which voiced the need for talent and skills.

This issue was identified both as an enabler and a challenge across the study cohort and access to high level talent and skills was identified as a significant factor in retaining companies within the region. Access to skills draws companies to Oxfordshire and is one of the factors that will keep companies here. It would appear, based on the views of the companies within this cohort, that the need is for higher skilled talent and there was a call for greater access to engineering skills and software development skills. It is notable that the companies participating in this research have an international workforce and for some roles, the labour market is global. 2021 will bring new systems for securing talent from outside the UK and new rules and obligations must work in connect with companies and their need to secure skills and capability at pace.41

Prior to COVID-19 job posting analytics highlighted that top skills clusters required were in basic customer service, General sales, Microsoft office and productivity tools, project and budget management. Top hard skills were heavily weighted in management, with communication, sales, training and recruitment also high on the agenda. Top common skills were in learning, leadership, leading and literacy.42

Top skills demanded reflect those occupations most needed at the current time during pandemic recovery with nursing, auditing, accounting and warehousing high on the agenda. The need for employers to adjust and pivot their business models for growth or recovery linked to the pandemic is also reflected with business development, agile methodology, risk analysis and mental health appearing frequently in posting requirements.

Top common skills include communication, management, customer service, sales, research and innovation, planning as well as enthusiasm and self-motivation – all a strong reflection of the changing business landscape and evolving needs of employers. The national picture looks similar with Labour Insight finding Communication Skills mentioned in 33% of all roles advertised, organisational skills (14%) and planning (13%).43

OxLEP has worked with Oxford Artificial Intelligence to analyse job postings and create an Oxfordshire Skills Classification Code (OSCC). At a top level the most demanded business skills in 2020 were in management, financial and account management, marketing and sales. This can be further drilled down, for example, within management, employers are most interested in workplace, office, people management, project management skills and organisational development. Within financial and account management the

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40 Hatch Regeneris (2019)
41 Advanced Oxford (2020)
42 Hatch Regeneris (2019)
43 Emsi – economicmodelling.co.uk (2020)
most demanded skills are financial management and budgeting with more refined skills such as invoicing and payroll mentioned.

The OSCC also enables analysis of job postings in terms of **cognitive skills** with the most highly sought after being analytical skills, mentioned substantially more than the next highest demanded scholastic and language skills. Oxfordshire employers are searching for investigatory research skills and within that the ability to analyse data, present and disseminate. The OxLEP/OxAI Webtool including this data and much of the data in this Local Skills Report can be accessed here: [https://www.oxfordshirelep.com/skills/skills-and-labour-market-information](https://www.oxfordshirelep.com/skills/skills-and-labour-market-information)

**Digital Skills are a recognised nationally as a top demanded skill** and although Oxfordshire saw a drop in postings during the Summer of the pandemic 2020 the requirement is once again growing with the more general terminology of Computer Literacy used by employers to define their needs. The analysis shows that within this term employers are looking most for spreadsheet and Microsoft Excel skills above Microsoft Office and social media more generally. This is also born out as a national finding in Labour Insights national analysis for 2020 who also reported the top computer skills requested by employers nationally to be Excel (10% of all roles require this skill), Office (6%) and SQL (4%). Employers are also more specifically continuing demand for digital development and deployment, digital professional services, coding and programming and digital data.

**Top personal qualities** demanded by employers in Oxfordshire are Communication with verbal and oral valued most highly above written and listening skills, Organisation with planning valued most highly and Attitude meaning mostly diligence and detail orientation and innovative thinking and creativity needed most.

Vacancies available following the first lockdown are for (similarly to the EMSI analysis), accountants, chefs, personal care assistants, general labourers, assistant managers, general managers, software development engineers, supply chain analysts and HGV/LGV drivers and retail salespersons and other health and social care roles such as registered nurses, nurse practitioners, social workers, care assistants and physiotherapists as most needed at this time of recovery. All roles which link to the key work needed during the challenges of the pandemic.  

The **employers with the most online job vacancies** in Oxfordshire are NHS and Oxford University followed by Value Retail Management (Bicester Village) Limited and Oxford Brookes University. Other top employers included large supermarket and hotel chains, care trusts and Oxfordshire County Council. This bears out similarities to national analysis by Labour Insight who found the most job openings were also in NHS, large supermarket chain and online retailer.

**Most employers in the area find their talent through recruitment agencies, paid-for recruitment websites and the local press.** Relatively few employers advertise positions in trade and national press or physical media and job boards.

In 2017 Employers Skills Survey, **the main skills gaps by occupation were reported in elementary staff, administrative and clerical staff, managers and sales and customer service staff and the main shortage being specialist skills or knowledge needed to perform the role.** Most employers felt that mismatched (overqualified) or under-utilised staff (overqualified and over experienced) staff was minimal within their business.

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44 Oxford Artificial Intelligence (2020)  
45 Labour Insight (2020)  
46 Hatch Regeneris (2019)
### Sector growth forecasts

<table>
<thead>
<tr>
<th>Oxfordshire LEP</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Sectors with the highest forecast growth</strong>  <strong>(2017-2027)</strong></td>
<td><strong>Sectors with the lowest forecast growth</strong>  <strong>(2017-2027)</strong></td>
</tr>
<tr>
<td>1. Caring personal services occupations</td>
<td>1. Secretarial and related occupations</td>
</tr>
<tr>
<td>3. Health and social care associate professionals</td>
<td>3. Skilled metal, electrical and electronic trades</td>
</tr>
<tr>
<td>4. Corporate managers and directors</td>
<td>4. Textiles, printing and other skilled trades</td>
</tr>
<tr>
<td>5. Customer service occupations</td>
<td>5. Administrative occupations</td>
</tr>
</tbody>
</table>

Please note these forecasts were produced prior to COVID-19: **Source: Working Futures, 2017-2027 (published 2020), 2017 LEP boundaries**

In terms of GVA our highest performing sectors concurs well with the Working Futures forecasts for growth. Top performing sectors are real estate, manufacturing, education, professional and technical activities, wholesale and retail trade; including the repair of motor vehicles, IT, Human health and social care, construction, administrative and support services. However, the forecasts have not born out so well in terms of employment, since the Working Futures report was produced, the number of employees in Water and Sewage (forecast as highest growth) fell by from 3000 to 2250 (0.6% of Oxfordshire’s employed) in 2019 and arts and entertainment rose from 7000 to 8000 in 2018 and then fell back to 7000 (1.9% of Oxfordshire’s employed).

The number of employees in IT (20,000) has remained the same however has reduced from 5.6% of the area’s employed to 5.3%. Those employed in Real Estate (6000, 1.6%) has remained static across the 3 years. Administrative and Support Service Activities have in contrast risen from 24,000 to 27,000 employees (6.7% rising to 7.2%). Manufacturing which will include engineering has also remained static in terms of share of the workforce (26,000, 6.9% in 2019) but this sector has remained the second strongest in terms of GVA. Public, admin and defence has also remained stable. Despite Oxfordshire being a rural county, agriculture remains one of the lowest sectors in terms of GVA and employment.

**Broad sectoral trends do not tell the whole story around the Impacts of COVID-19.** Impacts are specific to the activities undertaken by businesses and the supply chains they operate in

- Oxfordshire’s historically strong sectors have been hit less hard by turnover decreases as a result of COVID
- The area’s strength in knowledge intensive industry is adding resilience to the economy in some areas, but Accommodation/Food and Arts/Entertainment suffering heavy losses

Data on turnover impacts by sector is available only at the national level. Overall, the proportion of UK businesses reporting a decrease of more than 50 per cent in turnover in the government’s Business Impacts of COVID Survey (BICS) Sep/October 2020 release is 8.5 per cent. **The sectors most impacted are the Arts/Entertainment and Accommodation/Food**, with – at one stage – 40 per cent of businesses nationally in Arts/Entertainment reporting over a 50 per cent drop in turnover.

**One of Oxfordshire’s most dominant sectors is Education, which is the fifth most impacted sector nationally** on this metric. However, other dominant sectors (Real Estate, Professional/Scientific/Technical Activities, and Manufacturing) have been less impacted to this large degree. This indicates that Oxfordshire has been less hard hit than most other places in the UK.

On sub-county level variations, the data on business sectors highly impacted by COVID-19 imply that West Oxfordshire has been particularly hard hit, due to its strong relative reliance on Arts/Entertainment.

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47 Steer ED (2020)
48 Steer ED (2020)
Occupation growth forecasts

<table>
<thead>
<tr>
<th>Sectors with the highest forecast growth (2017-2017)</th>
<th>Sectors with the lowest forecast growth (2017-2027)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Water and sewerage</td>
<td>1. Engineering</td>
</tr>
<tr>
<td>2. Arts and entertainment</td>
<td>2. Rest of manufacturing</td>
</tr>
<tr>
<td>3. Support services</td>
<td>3. Food drink and tobacco</td>
</tr>
<tr>
<td>4. Information technology</td>
<td>4. Public admin. and defence</td>
</tr>
<tr>
<td>5. Real estate</td>
<td>5. Agriculture</td>
</tr>
</tbody>
</table>

Source: Working Futures, 2017-2027

The Occupations forecast by Working Futures as expected to grow are generally in line with current demands seen in local job posting analytics with continuing shortage of supply for caring personal service and health and social care occupations. The area continues to demand management and director level professionals and candidates with high qualifications above Level 4 and had seen a fall in demand for less skilled trades, although the pandemic continues to raise demand for some of these roles. The areas strong demand for professional roles does require support from secretarial and related administration roles so requirement for these occupations has grown against the prediction of Working Futures. There is no evidence to suggest that there is growth or fall within process, plant and machine operatives, skilled metal, electrical and electronic trades, textiles, printing and other skilled trades. These falls were likely forecast due to automation and technological developments.

There was minimal proportion of jobs at high risk of automation across Oxfordshire, however all of the outlying districts surround the City of Oxford had 55% to 61% medium risk. Oxford City roles were least at risk of automation.

Cherwell district has many jobs that require low-skilled workers and therefore has a higher risk of automation that other Oxfordshire districts and working in this district puts a person into the medium to high risk band, compared to other areas of the country.49

49 ONS (2019)
Skills that need developing

The Employer Skills Survey strongly highlights the skills needs of the area’s specialist sectors, in developing their workforce. **Employers value specialist skills and knowledge of the services offered by their individual organisations most highly.** With many of Oxfordshire's businesses linked to transformative and rapid technological change, it is no surprise that employers seek a workforce who can adapt to new equipment and materials, solve problems and understand advanced and specialist IT skills, in order to facilitate the area’s pioneering innovation economy.

More detailed research has been carried out through local Employer Skills Focus Groups, led by OxLEP and Oxford Artificial Intelligence. The analysis is summarised in Annex B. This analysis highlighted **three key ‘enabling skills’**:

- **Artificial Intelligence and Big Data**
- **Business and Digital Skills**
- **Soft Skills**
### Cornerstone Businesses/ Largest Employers

<table>
<thead>
<tr>
<th></th>
<th>Skills Demand</th>
<th>Skills Supply</th>
<th>Mapped Skills Gaps and Challenges</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Education (particularly R&amp;D/ specialist subjects)</strong></td>
<td>Level 4+ with relevant qualifications.</td>
<td>Potentially strong initial pipeline of Level 4+ qualified.</td>
<td>Retention challenges in first 5 years of graduation.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Education and Training FE Achievements decreased in 2019/20 by 40% and low take-up of these subjects.</td>
</tr>
<tr>
<td><strong>Health and Social Care</strong></td>
<td><em>Labour shortages</em> of c700 new entrants annually.</td>
<td>+30% Health, Public Services and Social Care achievements in 2018/19.</td>
<td>Achievements rising to meet demand, but labour shortages remain.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>COVID-19 has also resulted in an increased interest in working in the Adult Social Care sector.</td>
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<tr>
<td></td>
<td></td>
<td>Transferable skills can enable workforce hit hardest by redundancies to transition into labour/skills shortage sectors/occupations.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Hardest hit sectors by pandemic restrictions/sector closures.</td>
<td></td>
<td>FE Achievements in Travel and Tourism subjects decreased by 50% in 2019/20</td>
</tr>
<tr>
<td><strong>Food Services</strong></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td><strong>Visitor Economy</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Manufacturing and supply chains</strong></td>
<td><em>Skills Shortages</em> Increased focus as impact of pandemic.</td>
<td>Transferable skills can enable workforce hit hardest by redundancies to transition into labour/skills shortage sectors/occupations.</td>
<td>Pivoting skills demands as business models pivot to meet demands of pandemic.</td>
</tr>
<tr>
<td><strong>Elementary occupations</strong></td>
<td><em>Labour shortages</em> Increased focus as impact of pandemic.</td>
<td></td>
<td>Cost of reskilling/ upskilling.</td>
</tr>
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</tr>
</tbody>
</table>
| **Skills Shortages**  
Professional, Associate Professional and Technical roles which the area’s specialist research and development sectors need  
Managers, Directors and Senior officials.  
Some sectors, such as life sciences have seen significant growth/business model pivoting associated with pandemic.  
Hit less hard by turnover decreases as a result of COVID-19; continued demand for new postings in these strong sectors. | **Skills**  
Job growth between 2004 and 2020 focussed on knowledge-intensive, STEM and technology professional, associate professional and technician roles as well as managerial and senior leadership roles. | **FE Achievement decreased by 50% in 2018/19:**  
- STEM  
- Engineering and Manufacturing Technologies  
- ICT  
- Construction and the Built Environment  
and by 40% in:  
- Education and Training and Accounting  
- Finance/ Business Management.  
The number of apprenticeships undertaken has declined over the last four years.  
**Shortage of Programmers and Software Development professionals.** |

**Skills Shortages**  
Half of Oxfordshire occupations require degree or higher level (Level 4+) qualifications compared to a third nationally.  
Pivoting skills demands as business models pivot to meet demands of pandemic.  
HE qualifiers align well with the economic specialism of the area. Both the local universities play a key role in the areas specialist sectors.

**Only 2% Level 4+ FE Achievements;** There were no Science and Mathematics and minimal ICT at this level.  
Strong initial pipeline of Level 4+ qualified, lost due to retention challenges in first 5 years of graduation.  
The value of technical/vocational qualifications may not be seen as equal to a degree by employers.  
**Emerging technologies and pivoting business** models require rapidly evolving training supply which matches demand.

Cross Cutting Enabling Skills Needed in Oxfordshire:

The Oxfordshire Employer Skills Survey focus groups strongly highlighted that the overarching skills challenge can be framed around the need for the county to prioritise three particular sets of cross-cutting ‘enabling skills:  
- **AI and Big Data Skills;**  
- **Business and Digital Skills**  
- **and Soft Skills.**
Cross Cutting Skills Successes:

- Most learners move directly into sustained employment at larger proportions than nationally.
- Oxfordshire has a traditionally tight labour market.
- Job postings have returned to pre-pandemic levels demonstrating a resilient labour market.

Cross-cutting Skills Barriers, Challenges and Gaps

<table>
<thead>
<tr>
<th>An increasingly ageing population.</th>
<th>The number of Apprenticeships undertaken has declined.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Earning disparities.</td>
<td>More relevant subject take-up at age 25+ suggests employers are using the Apprenticeship Levy to upskill/reskill existing workforce</td>
</tr>
<tr>
<td>Staffing and graduate retention.</td>
<td>Traditional gender role beliefs in FE and Apprenticeship Achievements</td>
</tr>
<tr>
<td>Pockets of persistent labour market deprivation.</td>
<td>99% SMEs, 84% Micro businesses - capacity to support work and industrial placements is tight.</td>
</tr>
<tr>
<td>Education inequality, particularly in the City of Oxford and Cherwell.</td>
<td>Just over one third of employers provided no off-job and on-job training</td>
</tr>
<tr>
<td>High levels of economic inactivity in Cherwell local district.</td>
<td>Claimant and Alternative Claimant Count rate at 3.9%; Full impact to be seen after end of furlough scheme in September 2021.</td>
</tr>
<tr>
<td>Youth unemployment rises and significant rise in NEET young people.</td>
<td>The over 50’s have also been hit harder by unemployment than in previous recessions.</td>
</tr>
<tr>
<td>Amplified deprivation and intensified ‘digital poverty’ and financial insecurity.</td>
<td>For employers, recent training/qualification holds higher value than long term experience</td>
</tr>
<tr>
<td>Pivoting skills demands as business models pivot to meet demands of pandemic</td>
<td>SMEs and Micro businesses are unable to provide enough learners to create a course cohort big enough for providers to deliver a course.</td>
</tr>
<tr>
<td>The language of skills used by employers needs to map to that used by educators and providers.</td>
<td>Specialist sectors skills needs evolve rapidly and course content/teachers are unable to keep up. Providers want to provide more flexible 'bite-sized' courses to meet employer and skills needs but are limited by funding restrictions.</td>
</tr>
</tbody>
</table>

Over Representation of Achievements

- FE Students are increasingly choosing to take-up Language, Literature and Culture at much higher proportions than Science and Information and Communication Technology.
- FE Students still choose Sport, Leisure and Recreation over more relevant Travel and Tourism subjects
Proficiency of workforce

When surveyed Oxfordshire employers felt that 4.9% of their staff were not fully proficient in their role. Although on the high end of the proportion, this percentage aligns well with the national proportions and that of other South East region LEP areas. Oxfordshire employers therefore felt that the vast majority of their employees are fully proficient and therefore that the local alignment of supply and demand is good. Employers in Oxfordshire have reported ‘not being able to find ‘the right type of person’ for their role. This may align more with the personal qualities of their employees than their qualifications and highlights the need for skills programmes within education which develop those skills that employers demand such as interpersonal, communication, positivity that local job analytics show as highly valued, alongside the more formal qualifications and curriculum.

In Oxfordshire just under 50% of employers required specialist skills or knowledge for employees to perform their role in line with national proportions but there a marginally higher need for employees to have knowledge of the products and services offered by their organisation and sector. This may be linked to the specialisms and high value industry sectors of the area. The survey results also found that inline with the rest of England 45% of employees we required to adapt to new equipment or materials, and this could be inked to automation of tasks and improvements in technology. Employers needed employees to solve complex problems marginally less than in other areas of England. Surprising, given the high demand for problem solving skills found in local job posting analytics and the large percentage of occupations being at managerial level and given the areas specialism in research and development and high value specialist sectors. Only 28% of employees are required to understand instructions, guidelines and manuals and reports and this may be due to the lack of lesser skilled occupations in the area. There is also limited requirement to have knowledge of how the organisation works. With less than a third of the workforce and lower requirement than the rest of the country. Again, surprising given that over half of those employed are required in higher qualified positions.

Basic IT skills and computer literacy are required by a third of the area’s employers in line with the rest of the country. Furthermore, a higher proportion (34%) require Advanced or Specialist IT skills than the rest of the country (29%) and this is as expected given the specialisms of the area and the leading research and development activities the area is reknowned for. Basic literacy and numeracy weren’t that high in demand and there was minimal (9%) demand for manual dexterity skills. This reflects the minimal and falling demand for elementary skills positions across the area. There was also minimal requirement for communication in a foreign language. Given the area’s aspiration to attract foreign investment into the area this is also surprising.

Source: Employer Skills Survey, 2019 (published 2020), 2019 LEP boundaries
Hard-to-fill and skills shortage vacancies

Proportion of all vacancies that are hard-to-fill due to skills shortages or other reasons, 2019

Source: Employer Skills Survey, 2019 (published 2020), 2019 LEP boundaries

According to the Employers Skills Survey, just under a quarter of vacancies in Oxfordshire are due to skills shortages, just below the proportion seen nationally. Oxfordshire has marginally higher (3%) hard to fill vacancies due to other reasons than nationally.
This Annex provides additional tables and charts.
Local Landscape

Other substantitive and informative supplementary evidence basis, reports and research which underpin the Local Skills Report and Plan

Data and Analysis on Skills and the Oxfordshire Labour Market
Hatch Regeneris, Oxfordshire LEP Skills Advisory Panel Skills and Labour Market Research, October 2019

Hatch Regeneris, Oxfordshire LEP Skills Advisory Panel Skills and Labour Market Research Evidence Pack, October 2019

Findings of the Oxfordshire Employer Skills Survey
To be included once published, in November 2021 refresh of this report

Economic Recovery Planning Data and Analysis

OxLEP and HMG, OxLEP Delivery Plan 2020/21, March 2021
https://www.oxfordshirelep.com/delivery-plan
Employment by sector

Oxfordshire’s strengths and assets include:

The University of Oxford is ranked No. 1 in the world for clinical, pre-clinical and health, and No. 3 in the world for life sciences. The university allocates more than 60% of total external research income into the Medicine Division and has 23 Nobel Prize winners in medicine and chemistry. It is also home to the Wellcome Trust Centre for Human Genetics and the Molecular Diagnostics centre, a world-leading genomics research capability. Oxford Brookes University has considerable research capability in several areas including biomedical imaging, instrumentation and sensors and genomic instability. Together, both universities have an annual student population of 40,000, providing a young dynamic source of new talent for the Oxfordshire life sciences cluster.

Major research institutes in Oxfordshire are at the forefront of life sciences innovation, modern medicine and digital health. These include the Institute of Biomedical Engineering; the Alan Turing Institute for big data and algorithm research; the Big Data Institute; the Diamond Light Source; the ISIS Neutron Scattering facility at Harwell; the BioBank; the Rosalind Franklin Institute at Harwell and the Structural Genomics Consortium. Oxford University Hospitals Trust and Clinical Trials, which operates four primary hospital sites with comprehensive teaching and research capabilities and strong industry partnerships. The Medical Sciences Division and Oxford University Hospitals NHS Foundation Trust run one of the biggest clinical trials portfolios in the UK.

Oxfordshire is also home to several major international companies in the Life Sciences industry such as Bayer, DaiichiSankyo, Janssen, UCB Pharma, Thermo-Fisher Siemens and Abbott Diabetes Care. Digital health companies include Tessella, based in Abingdon which also has an international presence and is focussed on analytics and software services. It is also home to a number of emerging innovative companies such as Genomics and Exscientia, which is using AI to deliver new drugs.

Oxfordshire spins out significant numbers of life sciences start-ups, including a number of which have become unicorn companies with market values of over US $1 billion. Some of the innovative companies spun out of the University include Oxford Biomedica, Brainomix, Oxford Nanopore, Immunocore and Adaptimmune. Oxfordshire is also home to innovative start-ups in digital health such as Sensyne Health. Start-ups and spinouts from the university have excellent access to finance through Oxford Sciences Innovation – which has over £600m in funding available to Oxford University start-ups. Oxford University Innovation is also the number one technology transfer organisation in the country with the highest number of spinouts.

The UK Space Gateway at Harwell Campus, Oxfordshire, is the focal point of the UK and European space industry. The cluster is globally renowned and is home to over 80 organisations and over 2,500 people across Oxfordshire, with national and international research institutions and assets. It has strengths in ‘upstream’ work, sending satellites into space, and particularly strengths in ‘downstream’ sub-sectors, which uses technology and data from upstream work in a range of commercial applications.

Harwell Space Cluster: The Harwell Space Cluster is the gateway to the UK space sector and benefits from the presence of leading public space organisations, including the European Space Agency, RAL Space, Satellite Applications Catapult, Diamond Light Source and UK Space Agency. Harwell is also home to the Science & Technology Facilities Council, with over £2 billion of infrastructure for both public and private research and development. These assets make Harwell home to world-leading R&D expertise and testing facilities that enable the development of new technologies, pushing the UK to the forefront of space research.

Global companies and SMEs at Harwell: Global space companies such as Airbus Defence & Space, Lockheed Martin and Thales Alenia Space have established a presence at Harwell, with activities ranging from the design of propulsion subsystems to satellite navigation systems. These are joined by a range of SMEs from start-ups in the European Space Agency Business Incubation Centre to rapidly growing companies such as Oxford Space Systems, Deimos Space UK, Rezatec and Neptec.
Oxford: The University of Oxford has a wide range of researchers across data science-oriented departments. Likewise, Oxford Brookes University has strengths in Architecture, Built Environment, Computing and Communications Technologies.

The City: Oxford Science and Business Parks and Begbroke Science Park contain a range of IT and spinout businesses and international consultancies with interests in space-related data.

Wallingford: The NERC Centre for Ecology and Hydrology, HR Wallingford, CABI, several environmental consultancies and sections of the Environment Agency, Met Office and British Geological Survey are situated around Wallingford.

The UK space sector was valued at £13.7 billion in 2016 and is estimated to have 6.5% of the global market share. The UK’s strategy is to increase this share to 10%. This year the Prosperity from Space strategy set out a vision for enhanced growth in the UK space sector over the next decade. This aims to double the value of space to wider industrial activities from £250 billion to £500 billion, generate an extra £5 billion in exports and attract £3 billion of inward investment. The Oxfordshire space cluster centred on Harwell will be essential to achieving this and ensuring the UK continues to compete globally against other innovation ecosystems with strong space technology clusters.

Harwell Campus is forecast to grow to over 20,000 people over the next decade from 6,000 people today. This growth will require attracting new staff, existing staff to upskill and a pipeline of future talent.

Oxfordshire is a key location on the UK’s iconic ‘Motorsport Valley’, a £6 billion automotive global cluster of high-performance technology, motorsport and advanced engineering companies. Oxfordshire has over 24,000 people employed in manufacturing.

Oxfordshire is home to a number of world-leading motorsport names, including Williams F1 in Grove, Renault Sport F1 in Chipping Norton and Prodrive in Didcot. These companies have strong research and development expertise and capabilities, innovating and developing new technologies, particularly in electronics, intelligent mobility and lightweight materials – innovation in this industry also supports innovation in a number of Oxfordshire’s other high-technology clusters such as space, healthcare and connected and autonomous vehicles.

The ecosystem also supports a number of global supply chain companies, such as SS Tube Technology and Lentus, and the BMW MINI manufacturing plant in Cowley where 2.5 million cars have been produced since the new MINI was launched in 2001, and the new electric MINI is being manufactured. The county’s engineering expertise has attracted a growing base of international Tier 1 and Tier 2 suppliers, including French owned Faurecia which has its automotive seating production plant in Banbury. The Eoma, part of the $30 billion automotive Magna Group, also has a plant in Banbury, which produces exterior trim systems.

Oxfordshire has a number of research strengths, including in advanced engines and battery technology, where companies like Williams and Prodrive have been pushing Oxfordshire to the forefront of global competition for over a decade.

The UK government is committed to the continued success of the UK automotive industry by providing over £1.2 billion to automotive research funds. These covers low-carbon propulsion, lightweight materials and CAVs. The automotive industry in Oxfordshire has the opportunity to deliver further benefits through developing ways to reduce automotive carbon footprint and reduce other environmental and health impacts and risks. Oxfordshire’s base of Formula 1 expertise and capabilities, combined with its world class universities make it an ideal location for automotive R&D related activity, that not only leads to innovation within its own cluster but across a number of sectors such as space, defence, healthcare and life sciences.

Over 3,000 digital and creative businesses are based in Oxfordshire, with 22,000 people and generating a total of £1.4 billion to the UK economy each year.
Oxfordshire has strengths in fundamental digital technologies, such as cyber security and data analytics, that enables Oxfordshire to be a leader across other industries from space to bio-tech. Oxfordshire’s creative strengths range from animation and digital gaming to digital publishing and media.

Specific subsectors of considerable strength include:

Digital Gaming: Oxfordshire has a thriving digital gaming scene, with some stand out successes and a thriving start-up scene and networking environment – most notably Natural Motion which sold for $500 million and Rebellion, which has over 300 staff across the UK. Rebellion’s headquarters are in Osney Mead, Oxford, and the company is also opening a new £78m film studio in Didcot. Oxfordshire is also home to other successful start-ups such as and PlinkArt, a visual search engine, which has now been acquired by Google.

Cyber Security: In Oxfordshire, as well as a nationally recognised cyber security research capability, there is a well-established company base operating in this field, including Sophos, Nominet, RHEA and CQR Consulting. Sophos is a major developer and vendor of computer security software and hardware and has developed a state of the art “big data” analytics system.

Big Data and High-Performance Computing: Oxfordshire has internationally renowned big data and high-performance computing capability, particularly around space and life sciences applications. Oxford Instruments, a university spinout, develops data mining tools which can analyse huge sets of data.

Digital Publishing: Oxford University Press is a department of the University of Oxford. It is the largest university press in the world and the second oldest. Other companies include Elsevier, Taylor & Francis and Pearson Education.

Oxfordshire is home to the world-leading cluster of expertise on cryogenics. Cryogenics is the production and behaviour of materials at very low temperatures. The blend of academic, research and industrial expertise makes Oxfordshire home to the most powerful concentration of cryogenic expertise in the world. Cryogenics is a critical enabling technology with sub-sectors such as cryocoolers, instrumentation and superconducting magnets. Cryogenic technologies underpin around 17% of the UK economy, including many of our high-growth sectors, particularly space, life sciences, energy and quantum computing. Oxfordshire is responsible for the majority of the UK cryogenic sector.

The Oxfordshire cluster includes:

Rutherford Appleton Laboratory at Harwell Science and Innovation Campus, a world leader in cryogenics. The Rutherford Appleton Library was responsible for the development of: the most successful closed-cycle cryocoolers ever flown in space; the ground-breaking ‘Rutherford Cable’ for use in high field magnets; and an extensive fleet of test cryostats supported by skilled technicians and full control and data logging capabilities. The campus is home to other research organisations and businesses including Cryox, the Diamond Light Source, and ISIS Neutron Source.

The cryogenics cluster is spread across the ecosystem and contains a number of leading businesses.

These include:

Oxford Instruments, which supplies and supports market leading research tools that enable quantum technologies, nanotechnology, advanced materials and nano-device development.

Oxford Cryosystems, a market-leading manufacturer of specialist scientific instrumentation best known for the Cryostream Cooler, the market-leading low temperature system used in X-ray crystallography.

Quantum Cryogenics – provides quality electronic solutions for the cryogenic and transport industry. Siemens Magnet - designs and manufactures superconducting magnets within the Magnetic Resonance (MR) business unit for use in magnetic imaging scanners (e.g. MRI).

Other companies include Innovative Cryogenic Engineering in Witney and Thames Cryogenics in Didcot, a world-leader in the manufacture and supply of cryogenic piping.

The University Technical College in Didcot is the first school globally to install a cryogenics lab thus creating future supply of skilled young people to support future growth.
Oxfordshire is globally renowned with a strong international brand and thriving visitor economy which attracts 32 million visitors a year which generates £2.3billion into the local economy and supports 39,000 jobs locally. It is one of the UK’s top locations for international visitors – with the historic city of Oxford, Blenheim Palace and Bicester Village global draws. However, the Covid-19 pandemic has decimated the visitor economy with unemployment potentially reaching 10,000 – almost 25% of employment in this sector.

A vibrant visitor economy is vital as it provides a sense of social inclusion as all can enjoy the attractions, retail, bars, restaurants, parks, theatres and so on whilst the sector offers a range of employment opportunities at various levels which isn’t as apparent in other sectors. Many jobs whilst important to the sector, are indeed low salaried and require lower skills thus enabling more inclusive growth in the Oxfordshire economy.

There has been 39% positive relative change in the number of people employed in the distribution, hotels and restaurants sector in the area over the past 5 years but this has been impacted by the Coronavirus Pandemic, being one of the main closed down sectors during the lockdowns, where we have seen the most redundancies in the area in accommodation and food services sectors. The city’s universities are world-renowned for delivering scientific and technological breakthroughs that fuel a steady stream of exciting new spin-outs. In fact, according to figures from the Higher Education Statistics Agency (HESA), the University of Oxford is far and away the country’s most successful start-up creator. Between 2015 to 2019, it created 86 new companies, more than the combined output of University College London (46) and Imperial College (36) in second and third place.

Beauhurst currently tracks the 30,000, active high-growth businesses in the UK. 637 of these (2%) are in Oxfordshire. This is double its share of the general company population and reflects the rich assets which Oxfordshire’s ecosystem possesses including the University of Oxford, ranked number one in global university standings for five successive years, the world’s largest nuclear fusion research facility at Culham, Europe’s largest space cluster at Harwell, and the pioneering Jenner Institute and Oxford Brookes University at the heart of the world leading life sciences cluster in Headington in Oxford. Maintaining and improving access to highly skilled workforce will be key for future growth of these companies underpinned by improved graduate retention.

Key trends are shaping Oxfordshire’s future. We know that our world is changing rapidly, with new global trends and technologies disrupting our futures. These are creating new challenges for society to respond to as well as opportunities for growth that the skills ecosystem should be cognisant of at all levels.

It is positive news that we are living longer, but an ageing population is already putting pressure on health, social care and pension systems, and ONS projections suggest that this will intensify in the forecast period. A shrinking working-age population, coupled with more pensioners, means productivity will become more important (and challenging for Oxfordshire) as a driver of growth.

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50 ONS (2019) Business Register and Employment Survey (BRES)
51 Beauhurst (2020)
Economy Outlook given impact of COVID-19

‘For the remaining cities and large towns with a strong economy, Covid is likely to have only a short-term effect on their economies, given that the economic impact was felt mostly in their local services businesses and the impacts were relatively small compared to other places. These cities and towns include Bristol, Cambridge, Milton Keynes, Northampton, Norwich, Oxford, Preston and Warrington.’

<table>
<thead>
<tr>
<th>Details of challenge</th>
<th>Cities and large towns</th>
</tr>
</thead>
<tbody>
<tr>
<td>Levelling-up + Covid challenges</td>
<td>Basildon, Birmingham, Blackburn, Blackpool, Bradford, Burnley, Cardiff, Dundee, Glasgow, Huddersfield, Liverpool, Luton, Newport, Sheffield and Swanssea.</td>
</tr>
</tbody>
</table>

Note: Belfast not included in the list as estimates of the share of workers able to work from home are not available.

Source: Centre for Cities, Cities Outlook 2021, January 2021 Cities-Outlook-2021.pdf (centreforcities.org)

Employment by occupation:

‘COVID-19 shows that there is an increased interest in working in the Adult Social Care sector in Oxfordshire. This change is due partly to awareness in the national media, local media and better understanding of the working practices of the NHS and Adult Social Care sector. This awareness has potentially fuelled a desire to make a difference to the ‘lives of others.’

Recruitment and retention issues in Adult Social Care Skills for Care estimates that the staff turnover rate in Oxfordshire was 39.4%, which was higher than the region average of 34.7% and higher than England, at 31.9%. Not all turnover results in workers leaving the sector, almost two thirds (62%) of starters were recruited from within the adult social care sector, therefore although employers need to recruit to these posts, the sector retains their skills and experience. Adult social care has an experienced ‘core’ of workers. Workers in Oxfordshire had on average 8.1 years of experience in the sector and 66% of the workforce had been working in the sector for at least three years. Using both workforce intelligence evidence and our links with employers and stakeholders across England, we know that recruitment and retention is one of the largest issues faced by employers.

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52 Oxfordshire Association of Care Providers (2021)
53 Skills for Care (2021)
Labour Shortages in Health and Social Care Sector

There is a global shortage of healthcare workers. The World Health Organisation estimates there will be a healthcare workforce gap of around 14.5 million by 2030. The workforce crisis has been described as the worst problem currently facing the NHS, and the Care Quality Commission’s State of Care report for 2018/19 said it is having a direct impact on care.

As health and social care are devolved, this Insight sets out the numbers behind the workforce shortages in England and examines proposed plans to address them.

How big is the shortage of healthcare workers?
Around 1.2 million full-time equivalent (FTE) staff work in the NHS, and 1.1 million work in adult social care. Around 78% of social care jobs are in the independent sector. Providers across NHS England are reporting a shortage of over 100,000 FTE staff. Adult social care is facing even starker recruitment and retention challenges, with an estimated 122,000 FTE vacancies. This equates to a vacancy rate of around 8% for both the NHS and adult social care, compared with a vacancy rate of under 3% for jobs across the UK economy.

Analysis by the King’s Fund suggests the NHS workforce gap could reach almost 250,000 by 2030. Nursing is facing one of the greatest problems with one in eight posts vacant. The Interim NHS People Plan identified nursing shortages as “the single biggest and most urgent we need to address.” This is partly due to the integral role of nurses in delivering the NHS Long Term Plan, but also due to the absolute number of vacancies. There are significant shortages in learning disability, primary and community nursing, whilst the mental health nursing workforce dropped by 11% between 2009 and 2019.

In adult social care, around one in 10 social worker and one in 11 care worker roles are reportedly unfilled. The vacancy rate is highest in London. The demand for social care workers is expected to rise in line with the UK’s ageing population. Skills for Care have estimated a need for 650,000 to 950,000 new adult social care jobs by 2035.

The role of overseas nationals
12% of the healthcare workforce were non-British nationals in 2018, with similar numbers of EU and non-EU nationals. The proportion differs across staffing groups, with the NHS particularly reliant on overseas doctors. In 2018-19, for the first time, more non-UK graduates registered as new doctors than graduates trained in Britain. In response, the General Medical Council (GMC) stated:

“Overseas trained doctors are vital to the NHS and the role of the international recruitment is helping the service to tackle vacancies across trusts. We know that a longer-term approach to meeting our workforce needs for the future must encourage higher numbers of locally trained staff over the next 5 to 10 years.”

In June 2019, around 65,000 EU nationals were employed in NHS Hospital and Community Health Services (HCHS). Doctors and nurses were more likely to be EU nationals than some other staff groups (see Chart 1). In the adult social care sector, there were around 121,200 EU nationals, of which 78,000 were care workers. However, as a proportion, nurses were most likely to be EU nationals.

Addressing the shortage of workers
There is variation in the ability of services to recruit and retain staff. The Care Quality Commission’s State of Care 2018/19 report states:

“Areas in and next to London face specific issues linked to higher costs of living and pay disparities caused by the London weighting.

In primary care, there are areas of the country that have struggled to attract and retain GP staff, driven by their relative rurality or attractiveness as a place to work and live.

…In adult social care, staff are affected by the lack of value given to social care by society and disproportionate levels of pay.”
The Interim NHS People Plan, published in June 2019, set out the following broad commitments to tackle the workforce gap:

- Make the NHS the best place to work
- Improve our leadership culture
- Prioritise urgent action on nursing shortages
- Develop a workforce to deliver 21st-century care
- Develop a new operating model for workforce
- Take immediate action in 2019/20 while we develop a full five-year plan
- The interim plan highlights an immediate need to improve retention, particularly in nursing. There is also a retention problem in social care, with a turnover rate of 40% for care workers in 2018/19. The GMC has warned that more doctors are choosing to cut their working hours in response to workload pressure. The number of FTE GPs has been rising more slowly than the total number of GPs, indicating that more are working part-time.


**Adult Social Care in Oxfordshire**

The workforce campaign funded by Oxfordshire County Council (OCC) Workforce Transformation in partnership with Oxfordshire Association of Care Providers (OACP) initiated during the early days of COVID-19, shows that there is an increased interest in working in the Adult Social Care sector in Oxfordshire. This change is due partly to awareness in the national media, local media and better understanding of the working practices of the NHS and Adult Social Care sector. This awareness has potentially fuelled a desire to make a difference to the ‘lives of others. Job losses, redundancies and early retirement have also had an impact.

OCC (Workforce Transformation) and OACP’s partnership based their work on increasing workforce capacity in Oxfordshire. This instigated a ‘Matching people (registered OACP job seekers) to Posts (registered care provider vacancies) Scheme’.

The Scheme assists take up of Adult Social Care jobs in Oxfordshire. Whilst funding for the COVID-19 workforce initiative has been depleted, OCC (Workforce Transformation) and OACP continue to work together on Workforce Transformation.

OACP continues to receive job seeker sign ups to its workforce register and holds a cohort of interested job seekers ready to be matched to care provider vacancies. However, part of this cohort group is unable to take up certain employment offers in particular care settings in Adult Social Care. E.g. Domiciliary Care unless they are local to them. As many job seekers cannot afford to learn to drive and have no suitable transport (e.g. working in Domiciliary Care requires use of a car as staff have much to carry) these Domiciliary Care vacancies remain ‘off limits’ to some job seekers.

The ‘Matching People to Posts Scheme’ (FREE service) has also revealed that the people involved in the matching process, the job seekers, like to be supported in finding a job and welcome an introduction to a potential employer. Likewise, the care provider (potential employer) likes the ‘warm lead’ hand over of a job candidate. The matching process frees them up to do what they do best – provide care. Whilst some of the big group care providers have recruitment departments and staff most work outside of the county with no knowledge of the Oxfordshire recruitment marketplace. The medium to small care providers often relies on paying a third party for their recruitment needs. Most care providers pay for expensive recruitment advertising – which impacts on their time and financial resources.

**Source:** Oxfordshire Association of Care Providers, February 2021 [Oxfordshire Association of Care Providers - Promoting and supporting adult social care in Oxfordshire (oacp.org.uk)](https://oacp.org.uk)
A summary of the adult social care sector and workforce in Oxfordshire 2019/20

In Oxfordshire there were an estimated 17,000 jobs in adult social care, split between local authorities (5%), independent sector providers (86%) and jobs working for direct payment recipients (9%). As at March 2020, Oxfordshire contained 255 CQC-regulated services; of these, 130 were residential and 125 were non-residential services.

**Recruitment and retention**
Skills for Care estimates that the staff turnover rate in Oxfordshire was 39.4%, which was higher than the region average of 34.7% and higher than England, at 31.9%. Not all turnover results in workers leaving the sector, almost two thirds (62%) of starters were recruited from within the adult social care sector, therefore although employers need to recruit to these posts, the sector retains their skills and experience.

Adult social care has an experienced ‘core’ of workers. Workers in Oxfordshire had on average 8.1 years of experience in the sector and 66% of the workforce had been working in the sector for at least three years. Using both workforce intelligence evidence and our links with employers and stakeholders across England, we know that recruitment and retention is one of the largest issues faced by employers.

**Employment information**
We estimate Oxfordshire had 15,500 adult social care jobs employed in the local authority and independent sectors. These included 1,200 managerial roles, 950 regulated professionals, 11,000 direct care (including 9,400 care workers), and 2,400 other-non-care proving roles. Oxfordshire lost approximately 67,000 days to sickness in 2019/20. Less than a quarter (22%) of the workforce in Oxfordshire were on zero-hours contracts. Over half (59%) of the workforce usually worked full-time hours and 41% were part-time.

**Workforce demographics**
The majority (82%) of the workforce in Oxfordshire were female, and the average age was 44 years old. Workers aged 24 and under made up 9% of the workforce and workers aged over 55 represented 26%. Given this age profile approximately 4,100 people will be reaching retirement age in the next 10 years.

An estimated 69% of the workforce in Oxfordshire identified as British, 15% identified as of an EU nationality and 17% a non-EU nationality, therefore there was a higher reliance on non-EU than EU workers.

<table>
<thead>
<tr>
<th>Table 1. Average pay rate of selected job roles by area</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Social Worker</strong></td>
</tr>
<tr>
<td><strong>Registered nurse</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Full-time equivalent annual pay</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>National Living Wage</strong></td>
</tr>
<tr>
<td><strong>Senior care worker</strong></td>
</tr>
<tr>
<td><strong>Care worker</strong></td>
</tr>
<tr>
<td><strong>Support and outreach</strong></td>
</tr>
</tbody>
</table>

Source: Skills for Care, A summary of the adult social care sector and workforce in Oxfordshire 2019/20, January 2021 Skills for Care - Home

Qualifications, training and skills
Skills for Care estimates show that 35% of the direct care providing workforce in Oxfordshire hold a relevant adult social care qualification (44% in South East and 50% in England). Raw data from the ASC-WDS showed, of those workers without a relevant adult social care qualification recorded, 43% had five or more
years of experience in the adult social care sector, 62% had engaged with the Care Certificate and 81% had completed training.

Source: Skills for Care, A summary of the adult social care sector and workforce in Oxfordshire 2019/20, January 2021 Skills for Care - Home
Business birth and death rates

Oxfordshire Business Start-up and Closures

Oxfordshire Business Churn (Start-ups/Closures) in last 12 to December 2020 (Number of companies by Activity (Prim. UK SIC 2007) months by sector

Source: Oxfordshire County Library Digital Information and Enquiry Service, Bureau Van Dijk FAME, December 2020
## Employment rate and level

<table>
<thead>
<tr>
<th></th>
<th>Cherwell</th>
<th>Oxford</th>
<th>South Oxford</th>
<th>Vale of White Horse</th>
<th>West Oxford</th>
</tr>
</thead>
<tbody>
<tr>
<td>Employment</td>
<td>78100</td>
<td>87000</td>
<td>80400</td>
<td>70800</td>
<td>55400</td>
</tr>
<tr>
<td>%</td>
<td>22%</td>
<td>25%</td>
<td>23%</td>
<td>20%</td>
<td>16%</td>
</tr>
<tr>
<td>Employees</td>
<td>69500</td>
<td>69200</td>
<td>64100</td>
<td>58200</td>
<td>48000</td>
</tr>
<tr>
<td>%</td>
<td>89%</td>
<td>80%</td>
<td>80%</td>
<td>82%</td>
<td>87%</td>
</tr>
<tr>
<td>Self-employed</td>
<td>8600</td>
<td>17800</td>
<td>16000</td>
<td>12700</td>
<td>7100</td>
</tr>
<tr>
<td>%</td>
<td>11%</td>
<td>20%</td>
<td>20%</td>
<td>18%</td>
<td>13%</td>
</tr>
</tbody>
</table>


## Other economic activity

<table>
<thead>
<tr>
<th></th>
<th>Great Britain (%)</th>
<th>South East (%)</th>
<th>Cherwell (%)</th>
<th>Oxford (%)</th>
<th>South Oxfordshire (%)</th>
<th>White Horse Vale (%)</th>
<th>West Oxford (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total</td>
<td>20.6</td>
<td>17.7</td>
<td>18.8</td>
<td>16.4</td>
<td>11.4</td>
<td>11.1</td>
<td>17.6</td>
</tr>
<tr>
<td>Student</td>
<td>26.6</td>
<td>26.8</td>
<td>29.7</td>
<td>#</td>
<td>!</td>
<td>#</td>
<td>#</td>
</tr>
<tr>
<td>Looking After Family/Home</td>
<td>21.5</td>
<td>20.8</td>
<td>#</td>
<td>#</td>
<td>#</td>
<td>#</td>
<td>#</td>
</tr>
<tr>
<td>Temporary Sick</td>
<td>1.8</td>
<td>1.5</td>
<td>!</td>
<td>!</td>
<td>!</td>
<td>!</td>
<td>!</td>
</tr>
<tr>
<td>Long-term sick</td>
<td>23.3</td>
<td>19.6</td>
<td>28.4</td>
<td>#</td>
<td>!</td>
<td>!</td>
<td>#</td>
</tr>
<tr>
<td>Discouraged</td>
<td>0.5</td>
<td>0.4</td>
<td>!</td>
<td>!</td>
<td>!</td>
<td>!</td>
<td>!</td>
</tr>
<tr>
<td>Retired</td>
<td>13.6</td>
<td>16.5</td>
<td>#</td>
<td>!</td>
<td>#</td>
<td>!</td>
<td>!</td>
</tr>
<tr>
<td>Other</td>
<td>12.9</td>
<td>14.4</td>
<td>#</td>
<td>!</td>
<td>#</td>
<td>#</td>
<td>!</td>
</tr>
</tbody>
</table>


# Sample size too small for reliable estimate (see definitions)

! Estimate is not available since sample size is disclosive (see definitions)

Notes: numbers are for those aged 16-64.

% is a proportion of those economically inactive, except total, which is a proportion of those aged 16-64
Claimant Count and Alternative Claimant Count

Information from Oxfordshire County Council EET Team

Current Picture

- 2020 school leavers experienced a lack of formal careers guidance, ending and transition into next destinations.
- Some school leavers now lack confidence, lack motivation and are anxious about their future – there is increased competition for employment and apprenticeships.
- Current Yi 11’s disrupted – closures, isolations. Focus on core curriculum delivery. Missed access to softer employability skills and extra curricular activities and future ambition impacting adversely.
- Greater NEETs currently and lack of flexible provision start dates and appropriate offers of EET learning.
- Lack of EET opportunities to match current need (apprenticeships, employment).
- Rise in Elective Home Educated students from schools and higher numbers without qualifications, increased anxiety and isolation.

Unemployment Increase – (UC Claims)

- Unemployment 16-24
  - Nationality:
    - March 2020 = 355,798
    - Sept 2020 = 626,229
    - 71.2% increase
  - Oxforshire 16-24
    - March 2020 = 1,910
    - Oct 2020 = 3,881
    - 103% increase
  - Oxforshire 16-19
    - March 2020 = 520
    - Oct 2020 = 1168
    - 120.4% increase

Covid Impact on EET Casework Team and NEET

- July to August 2020
  - 25% increase overall in casework open to our team compared to 2019
  - 60% increase in general enquiries to EET referral: inbox and phone calls, of the enquiries approx. 40% were in relation to Year 11 leavers.
- September 2020 onwards
  - 35% increase overall in casework open to our team compared to 2019
  - 40% of the cases currently open to us are Year 11 leavers from this year.
- October 2020 to end November
  - 24% increase overall in casework open to our team compared to 2019
  - 47% of the cases currently open to us are Year 11 leavers from 2020.
- 190 CURRENT OPEN CASES

NEET 16-18yrs
November 2019 = 193
November 2020 = 302

Considerations

- The longer young people remain NEET, the more disengaged and unmotivated they become – This leads to further mental wellbeing issues, increased offending behaviour, social isolation, and longer term needs for support.our individuals and our services. The more proactive we can be and the stronger the offer available to them, the more positive long term impact for all.
- Current Year 11 students (and earlier) need focused careers support and tight transitions, flexibility is required and leadership buy in. How do we get school leadership teams on board with seeking careers support and transition as a priority area to resolve?
- Growth and flexibility of post 16 EET opportunities across Oxfordshire at varying levels is paramount in meeting the growing demand. How do we ensure there is enough growth of EET opportunities across Oxfordshire to meet the demand and how do we ensure the most vulnerable and marginalised groups have access to appropriate opportunities? (Preventative options earlier? Funding? Role of MYP?)

Source: Oxfordshire County Council, EET Casework Team, EET Challenges, 2020, December 2020

Source: Oxfordshire County Council, EET Casework Team, Oxfordshire NEET & EET Provision, 2020, December 2020
Trends in Unemployment Claims in Oxfordshire Age Bands

A visible trend is unemployment becoming more common among older workers relative to previous downturns. Demographics and welfare changes may also have an impact here. 24% of claimants are over 50. 18.5% of claimants are in 16-24 age group.
Source: OCC, Oxfordshire Insight
Author: Margaret Melling, John Courouble and Alix Bird

### Unemployment in Oxfordshire

<table>
<thead>
<tr>
<th>District</th>
<th>Age</th>
<th>Sex</th>
<th>November 2019</th>
<th>March 2020</th>
<th>April 2020</th>
<th>November 2020</th>
<th>December 2020</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cherwell</strong></td>
<td>16 to 24</td>
<td>All</td>
<td>225</td>
<td>250</td>
<td>430</td>
<td>710</td>
<td>725</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Female</td>
<td>95</td>
<td>95</td>
<td>165</td>
<td>295</td>
<td>300</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Male</td>
<td>130</td>
<td>150</td>
<td>265</td>
<td>415</td>
<td>430</td>
</tr>
<tr>
<td></td>
<td>25 to 49</td>
<td>All</td>
<td>740</td>
<td>845</td>
<td>1730</td>
<td>2210</td>
<td>2185</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Female</td>
<td>335</td>
<td>385</td>
<td>715</td>
<td>915</td>
<td>900</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Male</td>
<td>405</td>
<td>460</td>
<td>1015</td>
<td>1295</td>
<td>1285</td>
</tr>
<tr>
<td></td>
<td>50 plus</td>
<td>All</td>
<td>320</td>
<td>365</td>
<td>680</td>
<td>870</td>
<td>865</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Female</td>
<td>140</td>
<td>155</td>
<td>295</td>
<td>370</td>
<td>370</td>
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<tr>
<td></td>
<td></td>
<td>Male</td>
<td>180</td>
<td>205</td>
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<td>Youth Unemployment in Oxfordshire (December 2020)</td>
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<td>5.1%</td>
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<td>West Oxfordshire</td>
<td>465</td>
<td>5.0%</td>
<td>340</td>
<td>5.7%</td>
<td>280</td>
<td>4.2%</td>
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Source: OCC, Insight Unemployment Dashboard, Accessed online: 26 January 2021
https://public.tableau.com/views/OxfordshireUnemploymentDashboard/MainStory?embed=y:display_count=no&:showVizHome=no%20
In general, the youth unemployment rate sat at around 4% for Oxfordshire in December 2020, but there’s quite a bit of variation when looking at finer age groups/individual Districts. The figures in the table above show % of the population claiming unemployment benefit. For the 16-24 age group, Oxford City district might therefore show a lower claimant % than other Districts due to its high student population.

**The Kickstart Scheme**
Over 19,000 job placements for unemployed young people have so far been created under the government’s £2 billion Kickstart Scheme - with tens of thousands more expected in the months ahead.

The landmark scheme, which gives 16-24-year olds a future of opportunity and hope by creating high-quality, government-subsidised jobs across Great Britain, began last week.

The Scheme has also received 4,359 applications from employers across Great Britain, with a wide range of jobs available, including in tech, construction, communications, fitness and media. New applications from employers are being accepted each week. [https://www.gov.uk/government/news/more-than-19000-jobs-created-by-kickstart-scheme-so-far](https://www.gov.uk/government/news/more-than-19000-jobs-created-by-kickstart-scheme-so-far)

**Older workers**
As a result of Covid-19 there is, correctly, a focus on young people, who are at risk. However, evidence shows that older workers are being just as affected as young, and there is a persuasive argument that they should be treated with parity as they are susceptible, particularly because of age discrimination and caring responsibilities. As such, Covid-19 risks reversing the positive employment trends we’ve seen over recent years and intensifying the barriers to employment for 50+ which are likely to result in long term unemployment. In addition, historical evidence of older workers in recessions indicates a prevalence of becoming inactive in the labour market. The latest 50+ Labour marker stats are attached to this bulletin.

**Source:** [FULLER.WORKINGLIVES@DWP.GOV.UK](mailto:FULLER.WORKINGLIVES@DWP.GOV.UK)  (December 2020)

**Over-50s who lose their jobs**
are much more likely to stay unemployed, study finds. Older people more than twice as likely to be unemployed for two years or longer if they lose job.

People aged over 50 who lose their jobs are significantly more likely to suffer long-term unemployment than other age groups, analysis has revealed.

Older workers who lose their jobs are more than twice as likely as other age groups to be unemployed for at least two years.

There are 407,000 unemployed over-50s in the UK, making up one in four (24%) of all unemployed people, according to new unemployment data from the Office for National Statistics commissioned by Rest Less, the digital community for the over-50s.

One-third of unemployed people over 50 have been out of work for at least a year while one in five have been out of work for at least two years. This compares with 20% and 8% of those aged under 50 respectively.

“With the state pension age having risen to 66, we are particularly worried that this drift from short to long-term unemployment ultimately risks a lost generation of unemployed over-50s forced into an early retirement they neither want nor can afford,” said Stuart Lewis, founder of Rest Less.

“Too often, highly skilled workers in their 50s and 60s suffer from age discrimination in the recruitment process, often being told they are ‘overqualified’ – a concept that simply doesn’t make sense,” he said.
Before the pandemic hit, 80% of employment growth in the UK came from workers over the age of 50. But experts said the pandemic is exacerbating inequalities that have always existed in the jobs market: pre-pandemic, the over-50s were more likely to face redundancy, have less access to in-work training and to be long-term unemployed.

“Even industries that haven’t been forced to shut down during the pandemic but have still been impacted, are cutting jobs and in many cases, it’s older workers who are losing their jobs first,” said Lewis.

HMRC data showed that while the proportion of under-25s on furlough had fallen at the end of October, the proportion of over-55s on furlough had increased – an indication, said Lewis, that businesses might be bringing back their younger workers first.

Emily Andrews, senior evidence manager at the Centre for Ageing Better, said over-50s faced different struggles getting back into work from younger workers, including age bias in the recruitment process and the prevalence of ageist views: a 2019 survey showed 37% of employees believed there was age discrimination in their workplace.

These issues, she said, meant older workers were much more likely to remain unemployed in the long term and could fall out of the workforce for good.

“Government back-to-work programmes haven’t worked for this age group – just one in five people age 50+ gained a job outcome from the Work Programme, compared to one in three 25-49s, and 40% of 18-24s,” she said.

“In terms of why over-50s are being hit so hard by the pandemic, we understand it’s more because they are less likely to get back into work than because they are in jobs that are particularly at risk,” she added.

Health is also an issue: in June/July, the IFS found that workers aged 54 and over with a disability or limiting health condition were 34 percentage points more likely to be worried about job security than those without.

**Source:** *The Guardian, Unemployment, Over-50s who lose jobs much more likely yo stay unemployed, study finds, 18 January 2021 Accessed online: 28 January 2021 Over-50s who lose jobs much more likely to stay unemployed, study finds | Unemployment | The Guardian*
Income, Employment and Education deprivation

Housing and Air Quality
The City of Oxford is also in the top quartile for deprivation related to Housing and Air Quality – this includes measures of affordability, overcrowding, housing quality, and homelessness. City of Oxford in particular has one of the lowest levels of workers with no qualifications, at 3.2 per cent, compared with a UK average of eight per cent, yet a significant proportion of the workforce have low skills and qualifications.54

Spacial Analysis

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<td>15.60%</td>
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<td>Bicester</td>
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<td>Below E&amp;W average growth</td>
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<td>14.70%</td>
<td>Above Average Growth</td>
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<td>Benson</td>
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<td>-7.10%</td>
<td>Declining Employment</td>
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<td>Didcot</td>
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<td>32.10%</td>
<td>Above 2 x E&amp;W average growth</td>
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<td>Thame</td>
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<td>Wallingford</td>
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<td>5.00%</td>
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<td>Wantage</td>
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<td>-1.90%</td>
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<td>Chipping Norton</td>
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<tr>
<td>Witney</td>
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<td>7.6%</td>
<td>11.00%</td>
<td>Below E&amp;W average growth</td>
<td>78</td>
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</table>

Source: ONS, Understanding Towns in England and Wales: Special Analysis, October 2020

54 HATCH Regeneris 2019
Food Insecurity
A profile of proxy food insecurity indicators in the South East

There has been a substantial increase in levels of financial insecurity across all local authorities in the South East, as a result of COVID-19, as evidenced by numbers of claimants of universal credit. The least deprived local authorities (like Oxfordshire) saw the greatest proportional increase in claimants - with rates tripling in many areas. However, overall rates remain highest in the local authorities that had highest rates pre-COVID. In general, the least deprived areas now have rates that are the same as, or higher, than the most deprived areas had pre-COVID. In general, pre-COVID19, the South East region appears to have had lower rates of child poverty, when compared to England. However, there are pockets of child poverty in all areas as shown by IDACI 2019.

Source: South East Local Knowledge and Intelligence Service, A profile of proxy food insecurity indicators in the South East, 18 January 2021

Digital Exclusion
Local Intelligence confirms that COVID-19 has intensified the area’s digital divide with challenges around access to digital equipment suitable for online learning for the areas most deprived young people, families, job seekers and skills development. National initiatives are seeking to support some of these young people with provision of equipment but there remains a digital divide within families and with redundancies for older people, 50+, there will be greater need for support for these learners in retraining and reskilling utilising online learning as it evolves due to pandemic restrictions. Affordability of internet connectivity may also be a challenge for this with financial challenges. With additional connectivity issues in rural areas of the county this will compound deprivation challenges. There have also been longstanding travel challenges for these people with travelling out of their local areas for support. Food poverty has risen in the South East region, with claimant counts tripling. Local charity SOFEA has seen dramatic increases in their food larder clients, surprisingly in areas not previously noted as in deprivation (see Annex B). Many of these clients are linked to financial insecurity and will need support with reskilling, upskilling and digital skills development to find future employment.
Evidence cited in this report shows that a significant proportion of the UK population is digitally excluded\(^2\) (see section 5) either through not having Internet access or because of low levels of digital literacy. As government moves services to self-serve channels, significant numbers who are unable to move online, or are not computer-literate, may be dissuaded from using government services, or be unable to use them effectively.

Digital exclusion is about more than not having access to a computer. It is not enough that citizens are able to access government services online – a sufficient level of digital literacy is required to be able to recognise when information is needed and to have the ability to locate, evaluate and make effective use of the online systems.

Digital exclusion will persist although it cannot be certain to what degree. From evidence and research cited in this report, a ‘hard core’ group may continue to be excluded at least for some time – those who cannot (or will find it excessively difficult to) overcome the barriers to exclusion and those who are simply not motivated to transact with government departments using digital channels. A key issue is whether those who are digitally included under retirement age will continue to be included beyond retirement.

Motivational factors continue to be a significant barrier to digital inclusion and to use of e-government services. There is a significant challenge to government departments to shift demand to self-serve channels. Evidence cited in this report shows that that many people fail to see the perceived need to use the Internet and to move to using government services online – this attitude is particularly prevalent among older people (see Appendix 2). Where people do have access to the Internet, there is much evidence that use of government services is low and that many prefer to continue to use traditional in-person channels to communicate with government departments.

The drive for digitisation of government services could reinforce the social exclusion of a sizeable segment of the population. This could lead to wider impacts in the medium and long term. Various studies have established that there is a strong correlation between digital and social exclusion although the extent of causation is less clear\(^4\). If digital exclusion persists then it is likely social exclusion may be compounded.

There is significant risk that wider government policy to continue to shift demand to e-channels will disengage the digitally excluded and compound exclusion. The digitally excluded are likely to be disproportionately heavy users of government services\(^5\) (see section 5). Our research shows that the right balance may not have been struck between driving services to digital channels and assistance into digital. Policy thinking has not always addressed the particular issues of exclusion and digital literacy relevant to excluded groups.

There is an ongoing need for the provision of high-quality public services to meet the needs of all citizens – this is of particular importance for those people with greater social needs. Continuing to tackle the digital divide is an essential element of government strategy to ensure public services are delivered effectively, but it is not the only element.

**Source:** Digital Exclusion, Low Incomes Tax Reform Group of The Chartered Institute of Taxation, April 2012 [https://www.litrg.org.uk/sites/default/files/digital_exclusion_-_litrg_report.pdf](https://www.litrg.org.uk/sites/default/files/digital_exclusion_-_litrg_report.pdf)
Skills Supply

Education and Training Provision for Oxfordshire residents:

<table>
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<th>Higher Education (HE)</th>
<th>University of Oxford and Oxford Brookes University</th>
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<td>Further Education (FE)</td>
<td>91 schools/colleges including 38 State funded Academies, 2 Maintained schools/colleges, 18 Special schools, 6 Colleges including Abingdon and Witney College, 16-19 Abingdon, Activate Learning, Didcot Sixth Form College, The Henley College, Ruskin College. There are also a broad range of other smaller funded and independent sector specific providers including 20+ locally based providers who deliver learning to Oxfordshire residents.</td>
</tr>
<tr>
<td>Secondary Schools</td>
<td>108 Secondary schools including 44 state funded Academies, 2 Maintained schools, 22 Special schools and 40 Independent /privately funded schools. There are high ratios of Independent to state funded school provision (40:44). 46% of students achieve Grade 5 or above in English and maths GCSEs, above national 43% state funded schools, 40% all schools.</td>
</tr>
<tr>
<td>Primary Schools</td>
<td>316 Primary schools including 121 state funded Primary Academies, 139 maintained schools, 24 Special schools, in addition to 32 Independent Primary schools. 65% of pupils meet expected standards</td>
</tr>
</tbody>
</table>

Oxfordshire Skills Capital Projects

Centre for Applied Super Connectivity - A new centre of innovation to train people with necessary skills in superconductivity which can be transferable to other relevant industries. The Centre will coordinate the interaction between key industry players, Oxford University, cryogenics companies, and end users on the Harwell campus and at the Culham Centre for Fusion Research Campus.

Oxford Centre for Innovation and Technology - The development of a specialist technology training centre in Blackbird Leys, Oxford, to address skills shortages across engineering, electrical, design, and emerging technologies. This high-specification facility supports training in a wide range of technological industries, including construction, engineering, IT, computing and motor vehicle. These facilities enhance student experience, equipping them with the knowledge and skills needed to go far in a range of exciting and fast-paced technological industries. In the summer term of 2021, a planned City and Guilds Conference will help to lock in technician level pathways alongside the existing engineering pathways. The reputation of the campus as a centre for STEM is growing, which has resulted in the successful awarding of IoT status in partnership with Milton Keynes College and Cranfield University. The project has attracted capital to refurbish an additional building on the site allowing the growth of STEM provision into L4 and Higher Apprenticeship provision in digital.

Technology Livestock Centre - A major new skills centre which provides a 'highly-technical' environment, supporting courses and research relating to livestock husbandry – reflecting the requirements of many of Oxfordshire’s rural businesses. The centre has been built to combine theory teaching spaces and a livestock area, capable of supporting the latest agricultural technology.

Advanced Skills Centre - A high-tech higher education hub dedicated to STEM training and provides a quiet space for all higher education students to work. The centre will address skills shortages by supplying skilled technicians at Harwell and elsewhere in Oxfordshire; and deploying the unique expertise and facilities available at and around Harwell as a learning resource for the rest of the UK, Europe and the world.

Advanced Digital & Science Centre - This project refurbished five key areas to promote STEAM (Science, Technology, Engineering, Arts and Maths) progression. This is set to have a major impact across several key sectors, including digital skills, engineering, and applied life sciences. Construction.
Construction Skills Academy - Abingdon & Witney College’s new academy will give young people and adults opportunities to develop the skills needed to secure employment in Oxfordshire. Oxfordshire’s innovation in low-carbon technologies is world-leading and the curriculum will reflect this with plumbing for renewable technology, electrical installation, carpentry and joinery.

Visitor Economy

Hospitality Training Centre - Project focuses on increasing the volume of skilled employees to respond to long standing skills and labour shortages across the hospitality sector. The curriculum is being co-deigned with the support of industry experts.

Health and Social care

Care Skills Training Centre - The Care Skills Training Centres at the City of Oxford College gives a unique insight into careers in the health and social care sector. The centre provides acute clinical and residential care facilities for simulated teaching and learning, offers a range of facilities and equipment (including state-of-the-art hospital wards, fully equipped home care rooms, emergency care centres, and fully immersive, 3-Dimensional, virtual reality, learning spaces).

Green Construction Skills Centre - The Green Construction Skills Centre will meet the considerable shortage of green construction skills across Oxfordshire by offering a variety of training programmes including school engagement activities, full time courses for 16 – 18 year olds (including T Levels), higher level programmes, apprenticeships, adult skills training programmes and short upskilling courses targeted at those already working in construction. Courses will be designed with employers, and sector bodies such as the CITB, those with specialisms and interest in green issues and will focus on areas such as low or zero carbon technologies for both new build and retrofit construction projects.
Business Support & Skills

Businesses Supported (Cumulative)

Direct Jobs Created (Cumulative)

Students Supported (Cumulative)

Outcomes by March 2025

11,000+ Housing Supported/Accelerated
2,500+ New Learners
£993m+ in Leverage
26,000+ Indirect Jobs Supported

to boost growth in the county

in courses leading to full qualification

additional investment as a result of the LSF funding

in supporting sectors such as supply chain
COVID-19

Before the pandemic, Oxfordshire had one of the most highly skilled populations in the UK. We are yet to understand the impact it will have on businesses and employees coming off furlough.

It is expected that the biggest unemployment challenge will be on young people aged 18-24 years of age, and we are already seeing a 250% leap of Universal Credit claimants in that age range across the Bucks, Berks and Oxfordshire region.

To respond to this, the Government has created 10 Skills Recovery programmes focusing on support the 16-24 age group.

We are identifying ways we can inform and engage businesses about these initiatives. In order to do this, we are working in collaboration with various agencies including DWP, National Careers Service, DfE, ESFA, Activate, Oxford City Council and Aspire.

Outcomes Achieved to March 2020

30,000+ Students Supported
53 Schools Supported
29 SMEs helped to take on their 1st apprentice
2,500 Business Supported
12 SMEs supported through ESF programmes
## Qualification levels

### Oxfordshire District Qualification Levels

<table>
<thead>
<tr>
<th>Qualifications</th>
<th>Cherwell</th>
<th>Oxford</th>
<th>South Oxfordshire</th>
<th>Vale of White Horse</th>
<th>West Oxfordshire</th>
</tr>
</thead>
<tbody>
<tr>
<td>All categories: Highest level of qualification</td>
<td>113,422</td>
<td>126,725</td>
<td>108,232</td>
<td>97,867</td>
<td>85,312</td>
</tr>
<tr>
<td>No qualifications</td>
<td>22,331</td>
<td>17,287</td>
<td>17,827</td>
<td>16,328</td>
<td>15,054</td>
</tr>
<tr>
<td>Highest level of qualification: Level 1 qualifications</td>
<td>17,202</td>
<td>10,519</td>
<td>13,133</td>
<td>11,559</td>
<td>11,324</td>
</tr>
<tr>
<td>Highest level of qualification: Level 2 qualifications</td>
<td>17,949</td>
<td>11,341</td>
<td>16,120</td>
<td>14,307</td>
<td>13,461</td>
</tr>
<tr>
<td>Highest level of qualification: Apprenticeship</td>
<td>4,671</td>
<td>2,338</td>
<td>4,116</td>
<td>3,968</td>
<td>3,352</td>
</tr>
<tr>
<td>Highest level of qualification: Level 3 qualifications</td>
<td>13,210</td>
<td>22,581</td>
<td>12,936</td>
<td>11,281</td>
<td>10,513</td>
</tr>
<tr>
<td>Highest level of qualification: Level 4 qualifications and above</td>
<td>31,830</td>
<td>53,977</td>
<td>39,727</td>
<td>36,420</td>
<td>28,076</td>
</tr>
<tr>
<td>Highest level of qualification: Other qualifications</td>
<td>6,229</td>
<td>8,682</td>
<td>4,373</td>
<td>4,004</td>
<td>3,532</td>
</tr>
<tr>
<td>Schoolchildren and full-time students: Age 16 to 17</td>
<td>3,084</td>
<td>2,879</td>
<td>2,885</td>
<td>2,856</td>
<td>2,220</td>
</tr>
<tr>
<td>Schoolchildren and full-time students: Age 18 and over</td>
<td>3,027</td>
<td>29,952</td>
<td>2,531</td>
<td>2,744</td>
<td>1,820</td>
</tr>
<tr>
<td>Full-time students: Age 18 to 74: Economically active: In employment</td>
<td>1,387</td>
<td>5,841</td>
<td>1,125</td>
<td>1,206</td>
<td>888</td>
</tr>
<tr>
<td>Full-time students: Age 18 to 74: Economically active: Unemployed</td>
<td>161</td>
<td>1,115</td>
<td>118</td>
<td>148</td>
<td>92</td>
</tr>
<tr>
<td>Full-time students: Age 18 to 74: Economically inactive</td>
<td>1,465</td>
<td>22,968</td>
<td>1,272</td>
<td>1,368</td>
<td>831</td>
</tr>
</tbody>
</table>

**Source:** ONS, Annual population Survey, December 2020
FE Education and Training Achievements

Further Analysis of DfE Localisms Dashboard FE Achievements data

Analysis by Level of Achievement:

The majority (83%) of FE Adult education and training achievements in 2019-20 were at Level 2 or lower. Only 2% of achievements were at Level 4+ which employers in the area demand.

<table>
<thead>
<tr>
<th>Entry Level</th>
<th>Level 1</th>
<th>Level 2</th>
<th>Level 3</th>
<th>Level 4</th>
<th>Level 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>21%</td>
<td>14%</td>
<td>48%</td>
<td>14%</td>
<td>2%</td>
<td>0%</td>
</tr>
</tbody>
</table>

Further Analysis of Level 1 (GCSE (grades D-G)):
- Over half of all achievements at Level 1 were in Preparation for Life and Work subjects (mainly Foundation courses for Learning and Life)
- with a further third split between:
  - Business Management and Administration
  - Hospitality and Caring
  - Sport, Leisure and Recreation

Further Analysis of Level 2 (GCSE (grades A*-C)):
48% of FE Adult Education and Training achievements in 2019-2020 were at Level 2:
- One third of these achievements were in preparation for Life and Work
- Nearly a third in Health, Public and Social Care (a good match for a sector experiencing labour shortages)
- STEM achievements made up only 11% of all achievements at Level 2
- Other subjects' achievements linked to specialisms of the area were very low, between 1% and 6%, such as Leisure, Travel and Tourism (5%)

Further Analysis of Level 3 (A-level/National Diploma):
- One third of all achievements at Level 3 were in Health and Social Care and Child Development and Well-being.
- A further 18% were mainly in Business Management and Administration and insignificant Accounting and Finance.
- Most of the achievements in Building and Construction were at this level
- Most of the ICT Practitioner course achievements were at this level

Further Analysis of Level 4 (Higher National certificate):
Only 2% of achievements were at Level 4+ despite the demand from local employers for qualification at this high skill level:
- Nearly 40% were in Business Management
- A further third in Health and Social Care and Nursing and Subjects/Vocations allied to Medicine.
- 12% were also within engineering and limited ICT for Practitioners
- There were no science and mathematics achievements

Further Analysis of Level 5 (Higher National Diploma):
Achievements at this level were very low, despite the demand by employers for Level4+ qualifications. These were mainly in:

Source: DfE Localisms Dashboard, 2019-20
• Teaching and Lecturing
• Business Management

Analysis by gender:

63% of all FE Education and Training achievements were by females, with only 37% by males.

Female achievements:
There were more female achievements in 12 out of the 15 Tier 1 subject areas than males, most notably in:
• Health, Public Services and Social Care (85%)
• Education and Training (74%)
• Arts, Media and Publishing (69%)
• Retail and Commercial Enterprise (65%)
• ICT (63%)
• Science and Mathematics (58%)

Male achievements:
The only subject areas with higher male achievements are:
• Construction, Planning and Built Environment (93%)
• Engineering and Manufacturing Technologies (73%)
• Leisure, Travel and Tourism (76%)

Female achievements were notably lower in:
• Construction, Planning and Built Environment (7%)
• Leisure, Travel and Tourism (24%)
• Engineering and Manufacturing Technologies (27%)

Male achievements were notably lower in:
• Health, Public Services and Social Care (15%)
• Teaching and Education (26%)
• Arts, Media and Publishing (31%)

Analysis by BAME classification:

20% of FE achievements were by learners classified as BAME.

There was higher than average achievements by learners classified as BAME in:
• ICT (30% BAME)
• Science and Mathematics (30% BAME)
• Social Science (23% BAME)

There was notable under-representation by learners classified as BAME in:
• Agriculture, Horticulture and Animal Care (1% BAME), although this has low achievements for all learners
• Leisure, Travel and Tourism (5% BAME)
• Arts, Media and Publishing (8% BAME)
• Health, Public Services and Social Care (9% BAME)
Analysis of learners who consider themselves to have a learning difficulty and/or disability and/or health problem (LLDD)

23% of learners considered themselves to be LLDD.

- 9% of achievements were in Preparation for Life and Work
- In other subject areas LLDD learners made up between 0 and 3% of achievements

Strongest achievements for LLDD learners were in:

- Health, Public Services and Care
- Retail and Commercial Enterprise
- Science and Mathematics

Traineeships

‘Traineeships are an education and training programme that provide young people aged 16-24 with an intensive period of work experience and work preparation training, as well as offering them support in improving their English and maths, to give them the best opportunity of entering an apprenticeship or employment.

Overall, Trainees had positive outcomes in the 12 months after starting their Traineeship, with 29% beginning an apprenticeship and 57% starting further learning within this time frame. There is a more marked divide between 16-18 and 19-23-year-old trainees, with the younger group less likely to begin employment within 12 months of starting a Traineeship – 19% compared with 53%. The combined picture shows that around 75% of Trainees have started in any positive destination within 12 months of starting the Traineeship.’

Estimating the impact of Traineeships: final report (publishing.service.gov.uk)
Apprenticeship Achievements

Further Analysis of DfE Localisms dashboard Apprentiship Achievements

Analysis by Gender:

**Female Apprenticeship Achievements:**
There is a higher representation of females within:

- Health, Public Services and Care (84%)
- Business and Law than seen at F.E. (67%) higher than males

**Male Apprenticeship Achievements:**
Although Apprenticeships achievements are still low given the strong growth plans for the area male achievements are higher (As in FE Achievements locally and Apprenticeship Achievements nationally) in:

- Construction and Built Environment
- ICT (83%).
- Leisure, Travel and Tourism
- Engineering and Manufacturing (89%)

**Notable under-representation in female achievements:**
- Construction and Built Environment
- ICT
- Leisure, Travel and Tourism

**Notable under-representation in male achievements:**
- Health, Public Services and Care

**Analysis of Apprenticeship Achievements by Age band:**

**Source:** DfE localisms Dashboard, 2019-20

- 42% of Apprenticeship Achievements were achieved by learners in the 19-24 age band
- Only 16% were achieved by learners aged 16-18
- Only 44% of Apprenticeship Achievers aged 16-24 were female in contrast to 62% in achievers aged 24+.

**Most popular Apprenticeship subjects for the youngest aged group (16-18):**
- Construction, Planning and the Built Environment,
- Retail and Commercial Enterprise
- Health, Public Services and Care
- Business, Administration and Law.

**Within the 19-24 age group** learners achieved most dominantly in:
- Engineering and Manufacturing Technologies
- Business Administration and Law
- Health, Public Services and Care.

**Similarly, in the 25+ cohort achievements in:**
- Health, Public Services and Care
- Business, Administration and Law
These achievements in the 25+ cohort likely demonstrate the commitment by employers to upskill and reskill staff, taking advantage of upskilling the current workforce through the levy through advanced and higher-level apprenticeships. This could be because many of the organisations within these sectors are the larger levy payers in the area.

Analysis by Level:

- 13% of Apprenticeship Achievements were at Higher (Level 4+), despite the area’s economic specialisms and employers reporting a shortage of higher-level technical skills
- 48% of Oxfordshire’s Apprenticeship Achievements were at Advanced (Level 3)
- 39% at intermediate (Level 2)

Other relevant Analysis of Apprenticeship Achievements:

98% of achievers were completing their apprenticeship as an employee.

6% of Apprenticeship Achievers were classified as BAME. 67% of those classified as BAME achieved their Apprenticeship in either:

- Health, Public services and Care
- Business Administration and Law

Live Apprenticeship Vacancy Analysis

Apprenticeship figures from a .gov site appear currently inflated because:

- Many who were on apprenticeships before the pandemic had their end date extended.
- Those who are furloughed still count as being on an apprenticeship
- Some apprenticeships have still managed to start during the pandemic
- The .gov reports anyone who is doing apprenticeship training, this includes all employers that are using the levy fund to skill up their current staff. This was clear in their data as you could see higher level apprenticeships in particularly demonstrating high rises.

These highlights that national apprenticeship figures have some level of overlap, where we would previously have seen some ceased and the number drop off. New apprenticeship vacancies that are suitable for young people have fallen; traditional apprenticeships in that a new position is created for a new member of staff to join a business.
The data above is taken from OXME. An internet scraper finds all apprenticeships in our area from the apprenticeship.gov site and uploads them to OXME. We then also add the odd ones that we find that are not on that site.

Prior to lockdown OXME consistently saw figures of around 110/120 apprenticeship vacancies on our site, this is no longer the case. There has been some recovery, particularly in September around the time of the ‘Eat Out to Help Out’ Scheme when Apprenticeships started rose to support the skills needed in the food services sector. Now the numbers are consistently 75+ but still a fair way from the 110 figures.

Source: Oxfordshire County Council, OXME, Live Apprenticeship Vacancy Numbers, January 2020 https://oxme.info

Advanced Oxford Analysis Employer Survey

Apprenticeships was not identified once by any respondent interviewed as part of an Advanced Oxford project involving employers associated with 'net carbon growth and development'. However, the project identified ‘Skills’ as the second most important issue to enabling growth and access to skilled employees scored highly.

Advanced Oxford is unable to offer any further analysis to determine why apprenticeships failed to score at all. Given the growth potential within this cohort, it will be important to understand whether apprenticeships can play a role for companies like those questioned. Advanced Oxford recommend that ‘it would be particularly worthwhile to explore the issue of higher-level apprenticeships at degree level and whether these could be encouraged as a means of injecting more engineering skills into the local economy. There would appear to be an opportunity for universities and further education (FE) within the region to be actively engaged in this issue, with the potential for greater partnership between FE and higher education providers, working with industry to increase provision of graduates with hardware and software engineering skills, not only into this sector, but into all the high tech industries within the county.’

Oxfordshire Apprenticeship Achievements Supplementary Charts

Source: DfE localisms Dashboard, 2019-20

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55 Advanced Oxford (2020)
Oxfordshire Apprenticeship Achievements 19/20 by subject and gender

Source: DfE localisms Dashboard, 2019-20

Oxfordshire Apprenticeship Achievement 2019-20 Levels

Source: DfE localisms Dashboard, 2019-20

Oxfordshire Apprenticeship Achievements 19/20 by ageband

Source: DfE localisms Dashboard, 2019-20

Oxfordshire Apprenticeship Achievements 19/20 by gender
Apprenticeship destinations


KS4 destinations

**KS5 destinations**

Fears over the impact of coronavirus are fuelling a longer-term trend towards studying nearer home. This could be seen as an opportunity for Oxfordshire, as the area’s employers struggle to fill their skills needs and retention of graduates remains a challenge.

**More students choose local universities as Covid pandemic rages**

Nearly a quarter of school pupils applying for university places want to be closer to home. More final-year pupils than ever before are applying to local universities so that they can study closer to home, amid concerns that the impact of the pandemic may extend into the next academic year.

Year 13 pupils across the country are currently finishing their applications ahead of the 15 January deadline, after which universities are no longer required to consider applications equally.

A UCAS survey of more than 20,000 pupils planning to go to university suggested that nearly a quarter (23%) want to study closer to home, accelerating a longer-term trend.

“Young people in our focus groups have said they don’t want to be far from their support networks. That’s been thrown into sharp relief by pictures in the media of students struggling in halls,” said Sarah Barr Miller, head of insight at the Universities and Colleges Admissions Service (UCAS).

“Traditionally, we had a boarding school system of higher education. You absolutely did not consider your local university. But we see a lot now want to stay local.”

Marimar Antypa, a student at St Charles Catholic Sixth Form College in west London, said she had applied only to local universities to save money and stay close to family. “I see the purpose of university as getting a job. If you’re just going there to have fun, how is that beneficial for your future?”

Rob Trimble, deputy vice-chancellor of the University of Cumbria, said he had already seen a 10.5% increase in inquiries this year, with substantial rises in applications for vocational courses such as nursing, medical sciences, teaching and business.

For some low- and mid-ranking universities, local students enable them to stay afloat. Ray Powell, an admissions tutor at the University of Greenwich in south London, said that in recent years more selective universities had been “poach[ing] our higher-performing students” to fuel expansion, following the removal of the student numbers cap. “But increasingly, because of accommodation costs and all the rest of it, a good, local university is an attractive option.”

A survey of 1,200 year 12 and 13 pupils by Access HE, a London social mobility charity, indicated that 30% thought the pandemic had made it more likely they would go to university. Nearly half (42%) of pupils on free school meals planned to study locally, compared with a third (30%) of their better-off peers.

This has been the experience at East Norfolk Sixth Form College in Gorleston-on-Sea, near Great Yarmouth, which has a high proportion of pupils from some of the UK’s most deprived postcodes. “We’ve seen a further increase in students wanting to go to good quality local universities,” said principal Catherine Richards. One pupil, Aref Shafiei, has opted for medicine at the University of East Anglia, his nearest institution, as his top choice after he was inspired by the NHS’s work during the pandemic. He has already taken part in one of its outreach programmes. “I’m a bit biased because of my relationship with the university,” he said. “And I get homesick.”

Graeme Atherton, head of Access HE, warned that focusing on local universities could limit young people’s choices. “It’s encouraging that more young people from across income groups want to go on to university, but every young person deserves the opportunity to progress to the university that best suits their abilities.”
Competition for university places is expected to be particularly fierce as experts predict more pupils will apply than ever before. Barr Miller said UCAS was expecting a 5% jump in applications this year, despite a dip in the number of British 18-year-olds. This would follow on from a 12% increase in applications submitted before the early deadline of 15 October for medicine, dentistry and veterinary sciences, as well as for places at Oxford and Cambridge.

She added that a projected decline in applications from EU students, who will pay higher fees after Brexit, might free spaces: “Savvy teachers will be recommending their students apply to the big-name universities because there’s a chance they’ll get in.”

Some universities, including Birmingham and Sussex, have pledged to consider applications from students with lower grades as a result of disruption to their education during the pandemic.

Mark Corver, an admissions expert and founder of dataHE said that although the January deadline didn’t always follow October trends, he expected applications from 18-year-olds to rise. “This is because they generally do, employment alternatives are less attractive and predicted grades and any AS results will be higher than normal,” he said.

Source: The Guardian, Students, More students choose local universities as Covid pandemic rages, 2 January 2021
More students choose local universities as Covid pandemic rages | Students | The Guardian
HE Graduate Destinations

The highest paid Oxford Brookes University and Business School alumni and graduates are legal department professionals at £66,000 annually. The lowest paid are Research and Development, Pharmaceuticals and Biotech professionals at £20,000. The best paying degree is PhD, with alumni earning an average salary of £157,000. Graduates who earn the lowest salaries are those with a Masters in Management degree, earning a salary of £36,000 annually.\textsuperscript{56}

The highest paid Oxford University & Said Business School alumni & graduates are Financial Services professionals at £104,000 annually. The lowest paid Oxford University & Said Business School alumni & graduates are Engineering professionals at £39,000. University of Oxford & Said Business School’s best paying degree is Masters in Management, with their alumni earning an substantially higher with average salary of £135,000.

The latest figures from the Department for Education show that the course with the highest graduate salary is business and management from Oxford University. Those who graduated from this course after the 2010/11 academic year earned an average £74,100 five years after graduation compared to the national median earnings of £27,700. Oxford dominates the top three this year with Computing (£67,900 compared to national median of £29,200) and Law (£67,200 compared to median £26,300) coming second and third respectively.\textsuperscript{57,58} Graduates from Oxford University & Said Business School who earn the lowest salaries are those with another degree, earning a salary of £46,000 annually.\textsuperscript{59}

Graduate retention

HOUSING Median house prices in Oxfordshire are 50% higher than the English average. Median house prices across England have risen quickly in nominal terms since the turn of the millennium, from an average of £75,000 in the year ending March 2000 to more than £234,000 by end-2017.\textsuperscript{20} This period can be thought of in three phases. The first, lasting from 2000 until early 2007, saw rapid growth fuelled by a strong national economy, high levels of real wage growth and housing demand stoked by a growing population. Between early 2008 and late 2010 prices were flat, as the market absorbed the effects of the global financial crisis. Household savings rates went up as consumer confidence fell and there was less appetite for taking on new debt. In the period since then, prices have gradually begun to rise again, with the rate quickening slightly since 2014. Median prices in Oxfordshire were above the English average in 2000 and although local prices have followed the same trend, the divergence has continued. After a dip during the global financial crisis (when the median price fell by 10% from previous peak to trough), prices were essentially flat from the end of 2010 until the beginning of 2014, at which point they began to grow again, and at a faster rate than the English average. Consequently, the median house price in Oxfordshire ended 2017 almost 50\% higher than the median price in England. At the local authority level, the direction of prices in four of the five authorities have largely moved in lock-step since 2000, although there remain some important differences between them. Oxford recorded the highest median price, at £400,000, and Cherwell the lowest, at £301,000. All four districts saw more concentrated growth in prices from early 2014; again, this is consistent with the generally improvement in the county economy witnessed from that year. The fifth district, which has followed the same trend but at a slower pace, is West Oxfordshire. Given the persistence of the trend, the reasons for it are likely to be structural: the major urban centres of London, Swindon and Reading are less accessible from West Oxfordshire than the other four districts. House prices are, on their own, not particularly indicative of the attractiveness or health of a regional economy. Of more value is housing affordability, most commonly measured by comparing the ratio of the median house price to median earnings. Oxfordshire has been shown to be a region with both above-average wages and above-average house prices. However, it is house prices that have showed the greater divergence from the national average and which make Oxfordshire score poorly on measures of housing affordability relative to local wages. On the next page, Figure 3.13 shows that three

\textsuperscript{56} Emolument.com (2020)  
\textsuperscript{57} The Telegraph (2020)  
\textsuperscript{58} Gov.UK (2020)  
\textsuperscript{59} Emolument.com (2020)
of the five districts – South Oxfordshire, Oxford and West Oxfordshire have a higher price to earnings ratio than the average for the South East. Of these, affordability in South Oxfordshire has worsened significantly since mid-2014. This is owing to two factors: the failure of the median wage in South Oxfordshire to grow in recent years and the surge in house prices in that authority over the same period. The median house price rose from £293,000 in 2014 to £377,500. Consequently, the price to earnings ratio in the region approached 13 in 2017, compared with an average for the South East of a little over 10.


Human capital is integral to the innovation ecosystem, as the people that generate and commercialise knowledge and innovation, attract business and investment. Critical to talent proposition is an ability to train, attract and retain world-class talent, developing skills aligned to business need, and encouraging entrepreneurial aspiration. Talent proposition also includes those outside the innovation ecosystem that provide essential support to it. Areas with world leading education institutes, such as the Research Triangle, perform well in this area if they can successfully retain talent. The talent proposition in Oxfordshire is bolstered by its two universities, who release highly skilled graduates into the Oxfordshire talent pool. Oxfordshire needs to do more work to retain this talent and attract and retain more international talent. Oxfordshire could also look to improve the way it nurtures and develops the skills of its domestic labour pool, for both high-tech jobs but also for the jobs that support the innovation industries.60

60 OxLEP (2018)
Housing Affordability

Poor housing affordability can prove a deterrent to young professionals hoping to live and work in Oxfordshire. Given the county’s unhelpful demographic profile, retention of young workers should be considered a priority. Without these workers, the region’s ability to fill positions in high technology and innovative business sectors would be hampered, weakening Oxfordshire’s competitiveness.

Source: OxLEP, Oxfordshire: a trailblazer for the UK economy, 2018 Economic Review: Baseline, December 2018
Employer provided training

Activate Learning - Skill Support for the Workforce and Unemployed in Oxfordshire

Skills Support for the Unemployed (SSU) is an ESF funded programme that helps unemployed people to retrain and gain skills up to a level 2 qualification to support with future employment.

In Oxfordshire, we receive referrals onto the courses from JCP’s, local support programmes such as Aspire, and from the employability projects, WHP, JETS and RBRL. Participants can access a wide range of courses on the programme with no limit to how many they can participate in. An example of some of our courses:

- Employability
- Essential digital skills
- Customer Service (all settings)
- Health and Social Care
- Mental Health and Wellbeing
- Resilience and Grit
- CSCS
- Security and CCTV
- Warehousing and Distribution
- Business Admin

Numbers on the project are as follows:

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<table>
<thead>
<tr>
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<tbody>
<tr>
<td><strong>Starts</strong></td>
<td>419</td>
</tr>
<tr>
<td><strong>Average no of courses</strong></td>
<td>2</td>
</tr>
<tr>
<td><strong>per person</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Progression to</strong></td>
<td>3</td>
</tr>
<tr>
<td><strong>Education</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Progression to</strong></td>
<td>38</td>
</tr>
<tr>
<td><strong>Employment</strong></td>
<td></td>
</tr>
</tbody>
</table>

The Covid pandemic, as you would expect, has had various impacts on the project. All courses have had to be moved to remote delivery, for some participants this has been a benefit and has enabled them to join courses and not have the worries of childcare and travel. For others we have seen that both digital resources and capability have been barriers to joining the courses. For those participants unable to access remote courses, workbooks have been posted out to enable them to complete at home in their own time, with follow up support over the phone from tutors.

During the third lockdown, we are continuing to see engagement from participants, which is encouraging although numbers are down from September – October. With the expected increase in unemployed people in April at the end of the furlough scheme, the project is gearing up to ensure our courses are reflective of the local employment opportunities and to support participants with transferring their skill set from one sector to another.

Skill Support for the Unemployed

Support for the unemployed (SSU) in Oxfordshire is an ESFA project to train and upskill unemployed people to help them gain employment. The Oxfordshire Job Centres are the main source of referral on this programme, work coaches are able to signpost their participants to courses they feel will be relevant and suitable to assist the participant in finding employment. Courses are varied and range from entry level to level 2:

- Employability
- Customer Service
• Digital literacy
• Employability for the construction industry
• Security
• Mental health awareness
• Health and social care

The response during the national COIVD lockdown dropped off, as understandably the pressure for the unemployed to find work during this time was relaxed. Many of our courses are now available remotely which is suiting those learners with access to technology, however many are still reliant on face to face delivery.

The project to date has worked with 396 participants, who have accessed £114k of educational funding. Participants have had success with progression into both further education and employment.

Skill Support for the Workforce

Skill support for the workforce (SSW) in Oxfordshire is an ESFA project to train and upskill employed workers to provide them with the opportunity to progress either into further education or gain promotion in the workplace.

Priority areas for the project were,
• Health and Social Care,
• Science and Engineering,
• Digital and Creative Industries,
• Construction and Built Industries
• Hospitality and Catering
• Distribution

The project has had success in several of these sectors, working with the NHS, care providers, creative industries, education and distribution. To date the project has worked with 407 participants who have accessed £111k of educational funding. Project participants have been successful with progressing within their current work setting and into further education.

The response during the COVID lockdown from employers was good with many of them taking the opportunity to train their staff whilst they were on furlough or unable to complete their normal job role. Course offers are now blended with some remote and face to face offer, however many of the courses have converted to full online provision, which is proving really popular with employers.

Example of local employers and courses:
• Award for Personal Licence Holders course delivered to 5 staff at Museum of Oxford (Feb 2020), which has enabled them to increase their sales and offer to customers within the cafe and gift shop.
• Supervising First Aid for Mental Health course delivered to staff at RAF Benson (Sept and Nov 2020) which has enabled them to operate as Mental Health First Aiders and offer a valuable service to colleagues in the RAF.
• ILM Certificate delivered to 2 floor managers at Worcester Leisure (started Nov 2020) which will enable them to develop in their management careers. One of them also did the licence holders qualification.
• Forest School ay Hobby Horse and other local schools and nurseries - level 1 has been completed and they will be moving up to level 2 (some started level 2 Nov 2020), enabling them to operate as Forest School assistant leaders.

Source: Activate learning, ESF Skills Support for the Unemployed (SSU) Programme and ESF Skills Support for the Workforce (SSW) Programme update, 27th January 2021
## Skills Demand

### Sector growth forecasts

Table 0-1: Strengths of broad sectors in the five Local Authorities in Oxfordshire relative to the UK in GVA. 1 = UK average. Light Green = relative strong sector, dark green = relative very strong sector

<table>
<thead>
<tr>
<th>Sector</th>
<th>Oxfordshire percentage of GVA</th>
<th>Oxfordshire LQ</th>
<th>Cherwell LQ</th>
<th>Oxford</th>
<th>South Oxfordshire LQ</th>
<th>Vale of White Horse LQ</th>
<th>West Oxfordshire LQ</th>
</tr>
</thead>
<tbody>
<tr>
<td>Real Estate Activities</td>
<td>16</td>
<td>1.17</td>
<td>1.33</td>
<td>0.80</td>
<td>1.26</td>
<td>1.21</td>
<td>1.51</td>
</tr>
<tr>
<td>Manufacturing</td>
<td>13</td>
<td>1.33</td>
<td>1.68</td>
<td>1.03</td>
<td>1.73</td>
<td>0.68</td>
<td>1.79</td>
</tr>
<tr>
<td>Education</td>
<td>11</td>
<td>1.87</td>
<td>0.77</td>
<td>4.10</td>
<td>0.98</td>
<td>1.17</td>
<td>1.22</td>
</tr>
<tr>
<td>Professional, Scientific &amp; Technical Activities</td>
<td>10</td>
<td>1.24</td>
<td>0.70</td>
<td>1.01</td>
<td>1.84</td>
<td>1.95</td>
<td>0.63</td>
</tr>
<tr>
<td>Wholesale &amp; Retail Trade; Repair of Motor Vehicles</td>
<td>9</td>
<td>0.89</td>
<td>1.26</td>
<td>0.47</td>
<td>1.13</td>
<td>0.90</td>
<td>0.76</td>
</tr>
<tr>
<td>Information &amp; Communication</td>
<td>7</td>
<td>1.04</td>
<td>1.01</td>
<td>1.11</td>
<td>0.56</td>
<td>1.78</td>
<td>0.48</td>
</tr>
<tr>
<td>Human Health &amp; Social Work Activities</td>
<td>7</td>
<td>0.98</td>
<td>0.77</td>
<td>1.92</td>
<td>0.40</td>
<td>0.63</td>
<td>0.68</td>
</tr>
<tr>
<td>Construction</td>
<td>5</td>
<td>0.88</td>
<td>0.84</td>
<td>0.72</td>
<td>0.76</td>
<td>1.22</td>
<td>1.00</td>
</tr>
<tr>
<td>Administrative &amp; Support Service Activities</td>
<td>4</td>
<td>0.69</td>
<td>0.49</td>
<td>0.50</td>
<td>1.29</td>
<td>0.56</td>
<td>0.74</td>
</tr>
<tr>
<td>Public Administration &amp; Defence</td>
<td>4</td>
<td>0.92</td>
<td>1.60</td>
<td>0.98</td>
<td>0.48</td>
<td>0.68</td>
<td>0.59</td>
</tr>
<tr>
<td>Transportation &amp; Storage</td>
<td>3</td>
<td>0.61</td>
<td>0.63</td>
<td>0.38</td>
<td>0.69</td>
<td>0.63</td>
<td>0.99</td>
</tr>
<tr>
<td>Accommodation &amp; Food Service Activities</td>
<td>3</td>
<td>1.05</td>
<td>0.91</td>
<td>1.12</td>
<td>1.18</td>
<td>0.64</td>
<td>1.68</td>
</tr>
<tr>
<td>Agriculture, Forestry &amp; Fishing; Mining &amp; Quarring</td>
<td>2</td>
<td>0.62</td>
<td>0.65</td>
<td>0.23</td>
<td>0.45</td>
<td>1.33</td>
<td>0.57</td>
</tr>
<tr>
<td>Arts, Entertainment &amp; Recreation</td>
<td>2</td>
<td>1.18</td>
<td>1.40</td>
<td>0.61</td>
<td>0.97</td>
<td>0.77</td>
<td>3.19</td>
</tr>
<tr>
<td>Other Service Activities</td>
<td>2</td>
<td>1.18</td>
<td>1.62</td>
<td>0.64</td>
<td>0.86</td>
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</tr>
<tr>
<td>Financial &amp; Insurance Activities</td>
<td>1</td>
<td>0.08</td>
<td>0.04</td>
<td>0.09</td>
<td>0.15</td>
<td>0.06</td>
<td>0.04</td>
</tr>
</tbody>
</table>

**Source:** ONS, 2018 (table from STEER Ed ERP)
Manufacturing, Wholesale/Retail, Real Estate, Professional, scientific & technical activities and Education sectors all represent a high proportion of GVA for Oxfordshire (c. 60 per cent of all GVA). Two of these sectors, Real Estate and Wholesale/Retail have had the highest number of businesses reporting increases in turnover (Figure 0-2). With this, and Manufacturing performing around average, Oxfordshire will have fared better than the average UK county, due to its underlying strengths in these sectors. However, there is cause for concern that Education is the sector with the lowest percentage of businesses reporting any increase in turnover.

Not fully captured by these data are the variation within sectors. For instance, a low percentage of Professional/Scientific/Technical sector businesses have reported increases in turnover since COVID restrictions were put in place. However, consultations –reported fully later in this report- indicated that some businesses in the Life Sciences sector in Oxfordshire have reported significant increases in turnover and demand. This has been reported across Oxfordshire and is a strong indicator that the economy of Oxfordshire is performing better than most of the UK, due to its underlying strengths in Life Sciences, which are of crucial importance presently and going forward.

**Source:** BICS Survey, October 2020

**Source:** STEER ED, ERP, 2020
Skills that Need Developing

Employer Skills Survey Focus Group Findings

OxLEP commissioned a set of Employer Skills Survey focus groups in order to ascertain in more depth the specific skills need of the area. ‘Based on a combination of data analytics and focus group feedback …the overarching skills challenge can be framed around the need for the county to prioritise three particular sets of cross-cutting ‘enabling skills’. These enabling skills have the capacity to facilitate productivity gains across three spheres of economic activity central to the county’s future prosperity and delivery of quality public services. In light of this research, pressing skill investment would appear to be best targeted at developing each of these areas, including:

**AI and Big Data Skills** – Skill investment in this area is focussed on enabling Oxfordshire’s innovation economy. Machine Learning and data science competencies enabling technological innovation both with respect to advanced engineering and medical/life sciences R&D as well as the upgrading and operating of existing advanced manufacturing facilities to Industry 4.0 operations. Such skills enable not only the aspirations of Oxfordshire’s Local Industrial Strategy but also technological solutions crucial to the expansion of the transition to a green economy;

**Business and Digital Skills** – Skill investment in this area is sector agnostic and focussed on enabling increased productivity across business operations, which form the backbone of the Oxfordshire economy. These include digital skills, ranging from computer literacy to software engineering to coding, and business skills with a focus on management and finance skills;

‘Employers demand digital skills across occupations, industries, and locations. The challenge for policy makers is to develop a skills policy which takes this diverse and pressing demand into account. **Baseline digital skills will get you a job, specific digital skills will power a career** Baseline digital skills are the ticket to entry, but it takes more than that to take full advantage of the digital economy. Specific digital skills define career fields, and propel workers into roles that pay more, offer advancement, and are less vulnerable to being automated. Programming skills are the most in demand cluster of digital skills whereas digital marketing and customer relationship management software tools are the fastest growing, changing the way that business hire for and execute these important functions.

**Digital skills are driving changes in the job market** Many of the specific digital skills in this report redefine the skill requirements in the job market, even in well-established fields like marketing. For example, database and analytics skills are now required for marketing analyst positions. Possession of in-demand digital skills will help job seekers adapt as the job market changes.

**Specific digital skills have spread far beyond the realm of IT** In fact, 68% of postings requesting these skills are outside of IT roles. The fastest growing specific digital skills are in the data analysis cluster and digital markets clusters. In each case, the roles calling for these skills are not traditional IT roles, but instead are becoming increasingly digitised as available data and tools increase in volume and sophistication.

**Digital skills build resilience for workers in a turbulent, technology-driven labour market** Developing digital skills offers job seekers a salary differential in the short run. More importantly, perhaps, specific digital skills also reduce the risk that their roles will be made obsolete by automation in the future and give workers transferrable skills which allow them to progress to higher-paying careers or transition to new roles.’ 61

**Soft Skills** – Skill investment in this area is focussed on job roles in the healthcare and social care sector, which are vital to Oxfordshire’s aging demographics. In addition to the routine medical and carer training required, there is acute employer demand for such soft skills and their accompanying jobholder characteristics for nurses, carers and social care managers. These include qualities such as empathy, honesty, trustworthiness and organisational skills, including the ability to self-manage. Matched with this are

61 Burning Glass and DCMS (2019)
pressing concerns over labour shortages for both nurses and carers, especially following the end of the Brexit transition period and possibly the experience of COVID-19. This raises the prospect that the valuation of such job roles, particularly non-medical caring positions, may need to become less driven by low wages and more driven by multi-skilled personnel capable of realising increasing levels of labour productivity.\textsuperscript{62} Consideration should be given to differences in skill demand but also to the nature of that demand across different geographical areas within Oxfordshire. There is clearly higher and unmet demand within the City of Oxford in comparison to other areas of the county and ‘Tentative evidence appears to suggest that Oxford City’s business ecosystem has some labour market characteristics more akin to that of global technology hubs in the sense of very high, and even unfulfilled, employer labour and skill demand for STEM roles;\textsuperscript{63} Talent retention is highlighted as the suggested possible approach to addressing this with success leading to greater international talent attraction beyond the attraction of academic talent. Talent retention may have been supported through intensified local participation in COVID-19 vaccine development and manufacture.

‘There has been significant demand by Oxfordshire employers for key cross-cutting skills that can enhance both employee capability and productivity. The transferability of soft skills, business skills and digital skills across considerable swathes of economic activity irrespective of sector and touching upon a fairly wide range of occupations has the potential to be an impactful approach to the design of local skills policy. Its successful development into a deliverable strategy necessarily the matching of better articulated employer demand to responsive educational and training provision. It is within this space, acting as a bridge between the two, that OxLEP would be well placed to join up the broadest sources of employer support for a skills agenda to the widest possible range of career and up-skilling opportunities.’

Locally run focus groups were attended by employers from Bicester area and the wider Cherwell district council area, the Harwell Campus location, and a consortium of Oxfordshire Heath and Social Care organisations. One of these groups was held before the pandemic began, two as the pandemic evolved, and finally followed up by a Sector Agnostic group in December 2020 to capture any change in demand through the pandemic. The geographic focus group, attended well by employers, highlighted skills priorities to be around:

**Soft skills:**
- Environmental awareness with the main challenges around green awareness and lack of green investment contributing to poorer health and mental health. The solution suggested was around raising awareness at Primary School teacher level to engage young people from an early stage.
- Self-motivation and enthusiasm with the main challenge raised around the huge disconnect between the value-creating skills and the human skills. Employers felt that the main barrier to a solution would be the cost of training courses.

**Cognitive Skills and Digital Skills:**
- Communication skills were demanded including core literacy in English (specifically the ability to speak, read and write coherently)
- Proficiency in other languages, such as Chinese and Arabic (likely linked to internationally renowned Bicester Shopping Village and the Visitor Economy)
- Employers felt that devolution of skills training might enable their needs to be better reflected in Skills provision and that young people should be educated as to the application and importance of other languages as they are valued equally alongside spoken and written literacy.
- Educational Skills such as research and analytical capability were sought along with critical thinking

**Domain specific skills:**
- Shortages identified in mechanical, automotive engineering, mechanical and creative design – challenges were around development of transferable skills, bias, recognising neurodiversity and the skills of the 50+ age group. It was felt that more community engagement and breadth of careers advice could provide a solution to these shortages.

**Business Skills:**

\textsuperscript{62} Oxford Artificial intelligence Ltd (2021)
\textsuperscript{63} Oxford Artificial intelligence Ltd (2021)
• Management and communication and project management were highlighted skills needs alongside those that can help drive business such as sales, profitability strategies, project management and communication.

**Advanced technology Skills:**
• Job specific requirements

**Other Skills challenges were:**
• Support needed to spend the apprenticeship levy effectively including how to source training linked to adaptability to change linked to cultural barriers
• Staff retention – employers recognised the need to provide extra benefits such as home working/flexible working and working together to improve attractiveness of ‘place’
• Retention of professionals beyond their training period

**Source:** Oxford Artificial Intelligence Ltd, Oxfordshire Labour Market and Employer Skills Survey Focus Group Mapping, February 2021

**Space challenges**

The UK Space Agency Space Sector Skills Survey 2020 identifies a number of skills challenges faced by the sector:

• Recent growth in the industry has placed stress on skills supply –growth in the number of people with the required skills has not kept pace with growth in demand.
• The industry has very high expectations of recruits exemplified not only by the breadth and blends of skills expected but also by the industry’s frequent expectations of skills, particularly technical ones, being supported by qualifications at post-graduate level and/or by experience in the industry.
• The industry suffers from an internal, inward-focused approach to recruitment, with preferences for ‘network’ recruitment of experienced and known recruits –extending to staff poaching on occasion. This preference for experienced people already in the industry decreases industry’s total training effort and reduces the skilled labour pool.
• Whilst the industry recruits easily across cultures, ethnicities, and nationalities, the number of women employed in the industry is under-representative of the working age female population. Female recruitment suffers from the historically lower proportions of girls and young women studying STEM subjects in schools and universities and, perhaps, from an image of the industry as a home for male ‘nerdy’ or ‘boffin’ types of people.
• Brexit has made it more difficult to recruit from Europe and has encouraged some European staff to return to their original countries.
• Whilst the industry offers good and competitive pay to its highly-qualified entrants, it may also struggle to increase pay at a point several years beyond recruitment –with consequent loss of high skills (particularly in software) to other sectors

The importance of high level STEM skills in Oxfordshire

Conclusion

Headlines

- High level STEM skills are of key importance to the performance of the UK economy in terms of jobs, productivity, innovation and competitiveness.
- Engineering professionals and IT professionals appear to be particular priorities in terms of labour market need.
- There appear to be gaps in the coverage of higher apprenticeship standards and frameworks in some areas of need.
- Apprenticeships need to support coherent career pathways but also provide sufficient coverage of the range of jobs roles within each occupational area.

Our analysis confirms that high level STEM skills are of key importance to the performance of the UK economy in terms of productivity and competitiveness. They also contribute a significant amount of employment: around 2.8m UK jobs based on our fairly tight definition of STEM occupations. High level STEM skills are also demonstrably important to the future development of many of the priority sectors identified in the Government's industrial strategy.

An analysis of trends in the economy and labour market, based on the UK Commission's Future of Work study, indicates that high level STEM skill requirements are being transformed by fundamental global trends relating to business, technology, society and the environment.

On balance it seems that there is no overall undersupply of qualified individuals to meet the demand for high level STEM workers. However, there are acute shortages in specific occupational areas. Investment by employers in the development of their existing staff STEM staff appears to be low relative to comparable occupational areas and may not be sufficient to meet business need.

Focusing down on priorities within high level STEM, engineering professionals and IT professionals represent strong priorities in terms of labour market need, based on our modelling work. Scientist occupations and Science, engineering and production technicians typically rank lower in terms of need, based on our approach.

Production managers in manufacturing could also be seen as a priority occupation, due to the scale of its employment and its economic significance, although evidence of market failure is less strong.

High level STEM jobs are increasingly positioned outside Manufacturing, in the Professional services sector and Information and communication sectors. It seems likely that the changing context in which STEM workers operate impacts on skills requirements. This may have implications for the way in which employers are organised in terms of their standards development role.

High level STEM employment mirrors the wider jobs picture in its concentration in London and the South East, with projections suggesting that this picture is unlikely to change in the medium term.
Our initial analysis of the emerging body of higher level apprenticeship standards, together with existing Higher Apprenticeship frameworks, suggests that at the current time there are gaps in coverage relative to occupations with labour market need. Some occupations appear to have no coverage (e.g. some scientific occupations) whilst others have coverage but the available standards appear to be relatively niche rather than covering the full scope of the occupation. Consideration will need to be given to these areas as the standards development programme progresses.

The primary focus of existing higher apprenticeship frameworks is on skills and knowledge at level 4. Our assessment of need suggests that there will need to be a continued shift in focus towards higher levels, within standards development, in order to provide effective progression routes to the professional occupations that we have identified as labour market priorities.

**Recommendations**

Based on these conclusions we make the following recommendations:

- Our analysis reinforces the importance of developing coherent career pathways within STEM occupations. In order to address priority needs, employers should actively consider the extent to which higher apprenticeships, including degree apprenticeships, can provide a relevant development route into professional level roles requiring STEM knowledge and skills at degree level. Employers should also consider the suitability of this route for progression into production manager roles.

- Working with employers, Government should consider how better general coverage of high level STEM occupations can be achieved through the standards development process. A rational approach is required that ensures that the broader requirements of an occupation are covered at the same time as more niche and sector-specific needs. Some standards, although notionally focused on niche areas, may have wider applicability across the occupation with limited modifications.

- The issue of diversity within high level STEM roles is not part of the scope of this review. However, its limited consideration of the evidence around gender balance supports the view that employers need to make major efforts to widen the talent pool available to them by making these occupations more attractive to women.

**Source:** Reviewing the requirement for high level STEM skills, UKCES, UK Commission for Employment and Skills, July 2015 High level STEM skills requirements in the UK labour market - GOV.UK (www.gov.uk)
Savills Science Cities, top 20

Source: Savills Research

Note: Talent and Universities, Hospitals and R&D, Funding environment, and Lifestyle received higher weightings than Business environment and Property categories

Source: Savills Research, Top 20 Science Cities (2021) Savills UK | Top 20 Science Cities
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