invest in Oxfordshire

Oxfordshire Sector Profile

Automotive and Motorsports









xLEP
driving economic growth

Contents

This is one of a series of five Oxfordshire Sector Profiles.

- Automotive and Motorsport
- Creative and Digital
- Electronics and Sensors
- Life Sciences
- Space Technologies

Please visit www.investinoxfordshire.com for more information.

Foreword

Nigel Tipple
CEO Oxfordshire Local Enterprise Partnership

Oxfordshire is renowned across the globe for its academic excellence, innovative business culture and quality of the built and natural environment. We have Europe's largest concentration of multi-million pound science research facilities, underpinning our leading position in advanced engineering, manufacturing and life sciences, in addition to being at the heart of the UK's growing international space cluster.

With one of the strongest economies nationally driving a GVA output of £19.2bn annually, Oxfordshire is one of only three areas that positively contribute to the Exchequer.

World leading research and innovation sits at the heart of our success - the use and application of knowledge is a key feature – indeed the county was recently cited as the most innovative in the country.

Our success is driven by a number of distinctive features:

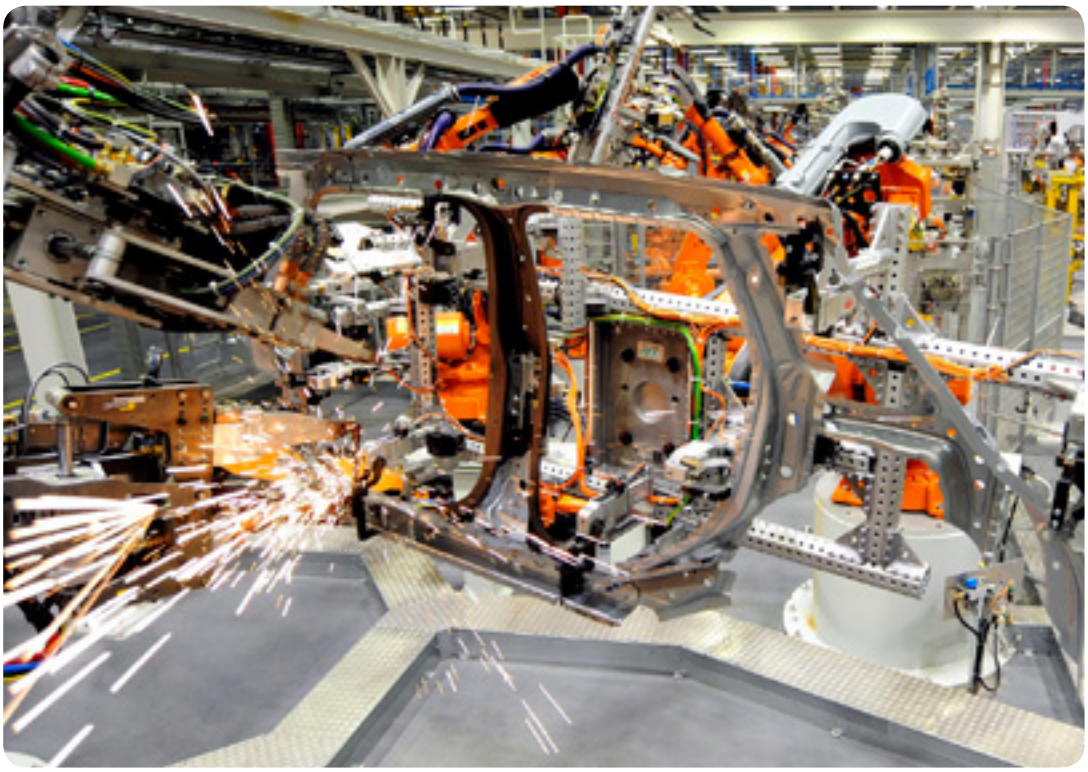
- Two leading universities - the University of Oxford is rated one of the best in the world and Oxford Brookes is one of the top performing modern universities nationally.
- We are home to an internationally significant group of large science and research facilities including Harwell Campus (home to the Rutherford Appleton Laboratory, Diamond Light Source and the gateway to the UK space sector – where the newly established European Space Agency sits alongside the Satellite Applications Catapult Centre) and the UK Atomic Energy Authority Culham Centre for Fusion Energy - home to the UK's national fusion research laboratory.
- The area is also home to globally recognised companies like MINI Plant Oxford, Oxfam, Oxford University Press, Siemens, Oxford Instruments and more.
- We have a highly skilled workforce; 49% are graduates - the lowest rate of residents with no qualifications and the lowest Jobseeker's Allowance claimant count nationally.

We are primed for investment with solid economic foundations and a strong ambition to create 85,000 new jobs by 2030. Our integrated approach, driving 'economic growth through innovation', presents government and business with a compelling case for investment.

Executive Summary

Oxfordshire is the ideal location for automotive OEMs and Suppliers, as well as R&D, engineering and testing activity, with significant strengths in motorsport

- **A significant market opportunity, with over 1.5 million vehicles and 2.5 million engines produced in the UK annually.** The growth of the UK's automotive industry is increasing the opportunity for a wide range of supply chain companies to locate to the UK.
- **An experienced pool of labour.** Oxfordshire has over twice the national proportion of people employed in the manufacture of motor vehicles. Over 23,000 people are employed in manufacturing and 3,600 specifically within the manufacture of motor vehicles.
- **A growing base of international Tier 1 and Tier 2 suppliers.** Oxfordshire's proximity to major car plants and the area's engineering expertise has already attracted global automotive supply chain companies including Faurecia and Decoma.
- **A centre for R&D and innovation in automotive technologies.** The presence of F1 teams including Renault-Lotus, Williams, Haas and Manor F1 demonstrate Oxfordshire's R&D expertise and capabilities. Alternative powertrain technology and lightweighting are local strengths, as demonstrated by local companies such as Williams Advanced Engineering and Prodrive.
- **Automotive related companies located in Oxfordshire can benefit from close proximity to world class expertise, research centres and facilities.** The University of Oxford is ranked No 1 in the UK for its research power and 94% of Oxford Brookes University research is ranked as being of international standard.



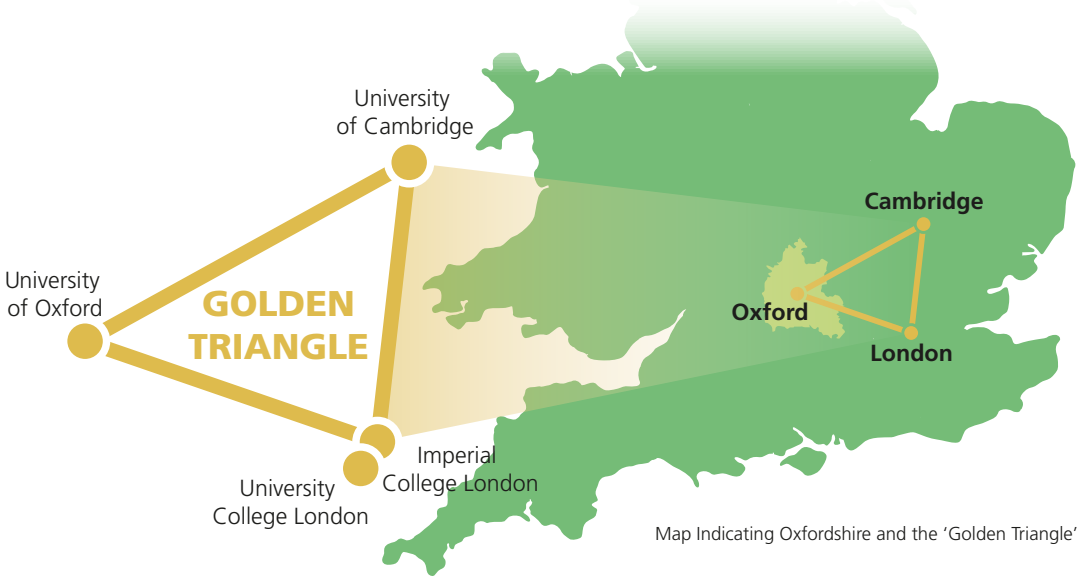
Automotive related companies located in Oxfordshire can benefit from close proximity to world class expertise, research centres and facilities

- **R&D expertise in autonomous vehicles.** The Mobile Robotics Group at the University of Oxford has been at the forefront of autonomous vehicle research in the UK for over a decade. Oxford Brookes University has recently opened the Cognitive Robotics Laboratory, which has sensor expertise in autonomous vehicles.
- **A total annual student population of over 43,000 students provides a young dynamic source of new talent.** The University of Oxford and Oxford Brookes University provide an average of just under 2,000 1st and Higher Degree qualifiers in science and technological based subjects each year. Oxford Brookes University delivers a range of undergraduate and higher degrees in automotive and motorsport subjects including 'hands on' experience through participation in Formula Student.
- **Oxfordshire provides a range of cost effective properties, which are located close to the M40 motorway and from which major car plants can easily be reached.** Large industrial premises include those at Central M40, located less than 50 miles from the assembly plants Jaguar Land Rover (JLR) in the West Midlands. Specialised commercial space is also available for companies requiring facilities for R&D and testing.
- **With its excellent motorway, rail and airport links, Oxfordshire is an ideal location from which to access national and international clients and markets.** Frequent direct train services make London only 56 minutes away. Heathrow Airport is an hour's drive from Oxford.

Introduction

Oxfordshire is part of the UK's Motorsport Valley®. This provides a comprehensive supply chain of locally based world-class design, precision and high performance engineering companies

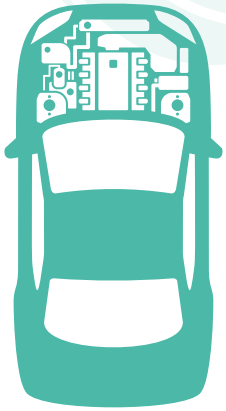
- Oxfordshire is part of the UK's 'Golden Triangle'. This triangle is formed by the University of Oxford, the University of Cambridge, and the universities in London (including Imperial College London and University College London). The universities within the 'Golden Triangle' have a combined annual research income of over £1.4bn.
- Located midway between London and Birmingham, Oxfordshire has excellent connectivity to the UK's motorway network including access to the M4 / M40 corridor and the M25, putting the rest of the country within easy reach. There is an average of five direct train services an hour to London from Oxford's main station (journey time of 56 minutes) and additional new services via Oxford Parkway. Heathrow Airport is just an hour's drive away and Birmingham International a similar distance.
- Oxfordshire is part of the UK's Motorsport Valley®. This provides a comprehensive supply chain of locally based world-class design, precision and high performance engineering companies, developing technologies that are being adapted in the wider automotive and motorsport industries, as well as in other sectors including energy and aerospace.
- Oxfordshire has strengths in a number of other sectors including medical technologies and medical devices, electronics, digital, cyber security, Big Data and space related technologies.
- Oxfordshire has a strong track record in attracting Foreign Direct Investment, with global companies including Sharp, Toshiba, BMW, Siemens, Lockheed Martin and Thales Alenia Space.
- Companies locating to Oxfordshire are supported by a collaborative base of partners. This includes industry networks, as well as outstanding research organisations including the University of Oxford and Oxford Brookes University.
- In addition to the universities, Oxfordshire has world class scientific centres of excellence including: the UK's national laboratory for fusion research, Culham Centre for Fusion Energy and the UK's national synchrotron science facility, Diamond Light Source located on the Harwell Campus.



Map Indicating Oxfordshire and the 'Golden Triangle'

Automotive and Motorsports

3,700



Employed in AUTOMOTIVE MANUFACTURING

Oxfordshire's proximity to a number of car and engine plants, together with its engineering base, provides an ideal location for a range of automotive supply chain companies.

- Oxfordshire is an ideal location for automotive supply chain companies who can benefit from the area's engineering base, as well as its proximity to car plants. BMW has its MINI plant in Cowley, where 2.5 million cars have been produced since the new MINI was launched in 2001. In addition to BMW, JLR's assembly plants in Solihull and Birmingham are less than 50 miles away from Banbury.
- Located within Motorsport Valley®, Banbury is just 16 miles from Silverstone, the home of the British Grand Prix. The international track is complimented by a variety of ex-military bases where high speed testing can be conducted, including Upper Heyford Park near Bicester.
- Oxfordshire has over 23,000 people employed in manufacturing (BRES, 2014). This broad base enables effective recruitment in areas ranging from electronic products to plastic automotive components. The locality has particular strengths in engineering activities and technical consultancy, an area employing 5,500 people locally.

Number and Proportion of Employment, Sub-sectors (by SIC code)

Selected Industries by Standard Industry Classification (2 and 4 digit)	Oxfordshire No.	Oxfordshire %	England %
20 : Manufacture of chemicals and chemical products	1,200	0.4	0.3
22 : Manufacture of rubber and plastic products	1,800	0.5	0.6
23 : Manufacture of other non-metallic mineral products	500	0.1	0.2
25 : Manufacture of fabricated metal products, except machinery and equipment	1,500	0.4	1.1
26 : Manufacture of computer, electronic optical products	3,400	1.0	0.5
27 : Manufacture of electrical equipment	900	0.3	0.3
28 : Manufacture of machinery and equipment n.e.c.	1,300	0.4	0.7
29 : Manufacture of motor vehicles, trailers and semi-trailers	3,700	1.1	0.5
33 : Repair and installation of machinery and equipment	1,400	0.4	0.4
7112 : Engineering activities and related technical consultancy	7,100	2.1	1.1
7120 : Technical testing and analysis	600	0.2	0.2
72 : Scientific research and development	6,100	1.8	0.4

Source: BRES from ONS, 2014 (rounded to nearest 100)

- The range of engineering expertise has already attracted a growing base of international Tier 1 and Tier 2 suppliers. This includes French owned Faurecia which has its automotive seating just in time production plant in Banbury. Decoma, part of the $30bn automotive Magna Group, also has a plant in Banbury which produces exterior trim systems.

A centre for innovation in automotive technologies. Renault-Lotus F1, Haas F1, Williams F1 and Manor F1 are all based in Oxfordshire

The presence of Formula 1 teams and innovative automotive related companies based in the area highlights Oxfordshire's R&D expertise and capabilities as an ideal location for companies developing new technologies particularly in electronics, intelligent mobility and lightweight materials.

- Investment in the automotive sector is being driven by a requirement for efficiencies in super efficient petrol engines, hybrid technology and electric vehicles. With its base of Formula 1 expertise and capabilities, combined with its world class universities, it provides an ideal location for automotive R&D related activity.

- Innovations in areas such as alternative powertrain technology and lightweighting are derived from the specialist R&D developments in Formula 1 technologies, which are further developed for use in the wider passenger vehicle sector, in particular the premium car market and hybrid vehicles.

- Williams Advanced Engineering commercialises its F1 derived technology to the automotive industry, as well as to other sectors including aerospace and energy. The company has worked with a number of OEMs including Jaguar Land Rover (JLR) to develop concept vehicles, such as the Jaguar CX-75 hybrid supercar. The company's capabilities encompass lightweight materials and electric propulsion, where their expertise ranges from batteries and energy storage, to motor generator units and the software systems. Williams is the sole official supplier of batteries for the Formula E racing series.

- YASA Motors, a local university spin-out, has developed a unique patented technology which relates to the critical aspects of axial flux motor design and manufacture, including thermal, structural, magnetic and manufacturing processes. These small, light, electric motors will play a growing role in complying with both the strict emissions targets for a range of industries and the requirement for greater efficiency through electrification. In addition to the automotive sector, the company serves the marine and aerospace sectors from its Abingdon factory.

Innovation from Formula 1 to road vehicles

- Prodrive, one of the world's largest and most successful motorsport and technology businesses, is headquartered in Banbury.
- The company's advanced technology division, which originated from its motorsports engineering expertise, now also serves the road automotive market in addition to defence, aerospace and marine industries. From the company's laboratory in Banbury, Prodrive is developing the next generation of power electronics for electric and electric hybrid vehicles, including an efficient high voltage multiport DC-DC converter.
- Oxfordshire has growing expertise in technologies used for the development of autonomous cars. Oxbotica, a recent spin-out from the University of Oxford's Mobile Robotics Group specialises in mobile autonomy, navigation and perception. Its technology is being used in a pilot to deploy 40 self-driving pods in the UK Government's 'Driverless Car Challenge'. Some of these driverless pods are being demonstrated at the Transport Systems Catapult in Milton Keynes.

Companies developing autonomous technologies can benefit from proximity to the Transport Systems Catapult in nearby Milton Keynes. The Catapult provides state-of-the-art facilities which can be used to test and demonstrate the latest ideas in intelligent mobility. The Catapult focuses on a number of technologies including, automated transport systems, modelling and visualisation, customer experience and information exchange.

Oxfordshire is an ideal location from which to access and collaborate on F1 technologies across a range of sectors including automotive and energy

Williams Advanced Engineering

- Williams Advanced Engineering is the technology and engineering services business of the Williams Group of companies that includes the WILLIAMS MARTINI RACING Formula One team.
- Williams Advanced Engineering provides world class technical innovation, engineering, testing, and manufacturing services to deliver energy efficient performance to the automotive, motorsport, civil aerospace, defence and energy sectors.
- Williams Advanced Engineering specialises in five key areas; advanced lightweight materials, hybrid and electric power systems, vehicle dynamics, aerodynamics and thermodynamics, and low volume prototype production.
- Based at a dedicated facility at the Williams headquarters in Grove, the company employs about 130 staff of whom about 90 are qualified engineers. Some 25 staff work within testing facilities which include two wind tunnels capable of testing both scaled and full-size models and state of the art electrical power system test cells.
- Automotive companies work with Williams Advanced Engineering to develop concept vehicles, such as the C-X75 hybrid supercar in collaboration with Jaguar Land Rover; or its partnership with Nissan to develop a new range of high performance products for its Nismo range.
- Other projects include the design and manufacture of the batteries that power all of the cars competing in Formula E, the world's first electric racing series. Williams Advanced Engineering also has a technology ventures arm that sees Williams partner with start-up companies working in the clean technology space such as Aerofoil Energy Ltd, a UK based start-up developing aerodynamic devices for installation on supermarket fridges to improve their energy consumption.

"From our base in Oxfordshire we're able to recruit and retain high quality engineering staff. This ensures that we have the expertise to transfer cutting edge Formula One technologies and innovations into a growing range of sectors."

Craig Wilson, Managing Director, Williams Advanced Engineering

Research and Development

Automotive related companies located in Oxfordshire can benefit from close proximity to world class expertise, research centres and facilities. Both the University of Oxford and Oxford Brookes University undertake collaborative R&D with a large range of automotive companies including BMW, Bentley, JLR, Nissan, Audi and Toyota.

The University of Oxford is ranked No.1

in the UK for its research power

Research Excellence Framework (REF) 2014

UNIVERSITY OF OXFORD

The University of Oxford is ranked No.1 in the UK for its research power in the Research Excellence Framework (REF) 2014 and ranked in the top 10 Universities in the world for Electrical and Electronics Engineering and Physics (QS World University Rankings 2014).

Robotics

- Within the Department of Engineering Science research includes work on driverless cars, seeing machines, video and image understanding, biological networks, vehicle dynamics, wind energy, economic modelling and multi-sensor networks.
- The Control Group, based within this department, develops fundamental control methodologies and novel algorithms for applications in the areas of energy and automotive, aerospace, medical and process engineering. The group has worked with companies including Ferrari and Ricardo.
- The Mobile Robotics Group has been at the forefront of autonomous vehicle research in the UK for over a decade and the University's expertise in this area led to the first public demonstration of the Oxford robot car in 2014. University of Oxford technology installed in a modified Nissan Leaf electric car enabled the vehicle to drive itself on public roads.

94%

of Oxford Brookes University research is ranked as being of INTERNATIONAL STANDARD

OXFORD BROOKES UNIVERSITY

Technological developments are a key driver to further growth in the automotive industry, these include developments in electric vehicles, autonomous cars, 'lightweighting' and advanced powertrain systems – all areas in which Oxfordshire has considerable expertise.

Oxford Brookes has a particular expertise in automotive and motorsport technologies. At the Department of Mechanical Engineering and Mathematical Sciences (MEMS) research is organised into three cross-cutting, inter-disciplinary themes. These are: Sustainable Engineering and Innovation (SEI), Advanced Engines, Propulsion and Vehicles, and Simulation, Modelling and Systems Integration.

Electric Vehicles and Mobility

Since 2009, SEI has undertaken pioneering research in electric vehicles and e-mobility. The University is BMW's academic partner in the £6m Innovate UK supported MINI E project. This is a cross University approach, not only to understand the technical issues behind electric vehicles, but also to understand the social and psychological aspects of e-mobility. The year-long field trial will produce extensive data from both the battery-powered cars and the driver's feedback.

Oxford Brookes University has a strong track record in working with the automotive industry including collaboration with BMW on electric vehicles

Autonomous Vehicles

The department has engaged in world-leading research in Artificial Intelligence for more than 10 years and has recently opened the Cognitive Robotics Laboratory. The Intelligent Systems Engineering Research Centre has sensor expertise which relates to robotics and autonomous vehicles. Currently research work is being undertaken on ways to exploit the availability of multiple heterogeneous sensors in autonomous vehicles.

Advanced Engines and Propulsion

The University has considerable expertise in fuel efficiency and low emission engines. An example is a collaborative R&D project undertaken with YASA Motors. The company developed a revolutionary electric motor which first made an appearance in the Morgan LIFECar. The collaboration with Oxford Brookes enabled YASA Motors to prepare for mass production in a market predicted to be worth £15bn by 2020. The output of the research also resulted in production time being reduced from seven days to two. In addition the material use was reduced, the defect rate was down ten-fold and a key cost component was reduced from £95 to £10. This Knowledge Transfer Partnership won the award for 'Engineering Excellence' in 2014.

HARWELL CAMPUS

Advanced Materials Research

Diamond Light Source at Harwell Campus is a research centre of global importance, where intense beams of light are utilised to investigate the structure and properties of a wide range of materials and components including advanced components through to coatings and motor oils. The establishment of a new state-of-the-art materials characterisation facility at Harwell, in partnership with the University of Oxford will enable the research of materials at the atomic scale. This new facility will drive advances in many research areas of relevance to the automotive industry, including graphene technology and the development of cleaner, greener fuels.

Education and Skills

Higher Education and Further Education provision locally, ensures businesses can draw from a diverse range of skills, particularly within science and technology based subjects.

TOTAL ANNUAL STUDENT Population of 43,000+ Making it the youngest city in England and Wales

- In 2010/11 there were a total of 1,935 1st and Higher Degree qualifiers in science based subjects, representing an important source of new talent for electronics based companies.
- The University of Oxford has one of the largest physics departments in the world and has recently established a new Masters in Mathematical Physics. Also the University's Department of Engineering Science is one of the largest unified engineering departments in the UK.
- Oxford Brookes' Department of Mechanical Engineering and Mathematical Sciences has an average of 700 students a year. The Department delivers a range of undergraduate and higher degrees in mechanical, automotive, motorsport, and mathematical subjects. These include BSc in Motorsports Technology, BEng and MEng in Motorsport Engineering or Automotive Engineering and an MSc in both Race Engine Design and Motorsports Engineering.

Further Education Colleges

- Banbury and Bicester College delivers a Foundation Degree (Engineering) in Motorsports, Performance and Automotive Technology, as well as a Motorsport Engineering Level 3 Advanced Apprenticeship. Abingdon and Witney FE College offers Diplomas in a number of automotive related areas including in Vehicle Systems Maintenance.
- The University Technical College Oxfordshire (ages 14-19) has specialisms in science and engineering. The curriculum is being developed in collaboration with industry, including BMW. This new educational establishment will help to provide a new local source of engineering talent.

No. of Qualifiers by Selected Broad Subjects, University of Oxford and Oxford Brookes University

Subject	1st Degree	Higher Degree (research)	Higher Degree (taught)
Physical Science	465	170	115
Engineering and Technology	300	85	110
Mathematical Science	235	50	105
Computer Science	125	25	150
Total	1,125	330	480

Source: HESA, 2010/11

Professional Development

- Business Executives can access world class Continuing Professional Development. The Saïd Business School is 10th in the world in the combined ranking of the Executive Education programmes compiled by the Financial Times (2015). The School is ranked first in the UK for open enrolment programmes and is ranked 23rd globally for custom programmes.

Population and Profile

Oxfordshire is an ideal location for commercialising R&D, design and manufacturing related operations. With 31,700 people employed in skilled trade occupations, this enables automotive related companies to effectively recruit employees with the relevant skills base.

49%

of the resident **Working Age Population** are qualified to degree level and above which is over **13%** higher than the UK proportion

- Situated within the UK's most densely populated region, the South East, Oxfordshire has a large population, estimated at nearly 700,000 (Mid Year Population Estimates, 2013). In addition, the Oxfordshire area has a Working Age Population of over 430,000. The Working Age Population of the wider region is over 5.5 million.
- Over 205,000 (49%) of the resident Working Age Population are qualified to NVQ level 4 (diploma level) and above, which is over 13% higher than the UK proportion (36%) and 10% higher than the proportion for the South East (39.1%), indicating the presence of a considerable pool of highly educated employees.
- In addition to the high availability of employees in professional occupations Oxfordshire also has 55,200 (16%) of its employee base working in associate professional and technical occupations which is over 2.2% higher than the UK proportion (14%).

Oxfordshire has 110,000 PEOPLE EMPLOYED in professional occupations

Almost 11% higher than the UK proportion.

Economic Activity Rate (16-64), ONS 2014

	Oxfordshire No.	Oxfordshire %	England %
Economic activity rate - aged 16-64	344,100	81.1	78.3

Source: Midyear Population Estimates, ONS

Sites and Premises

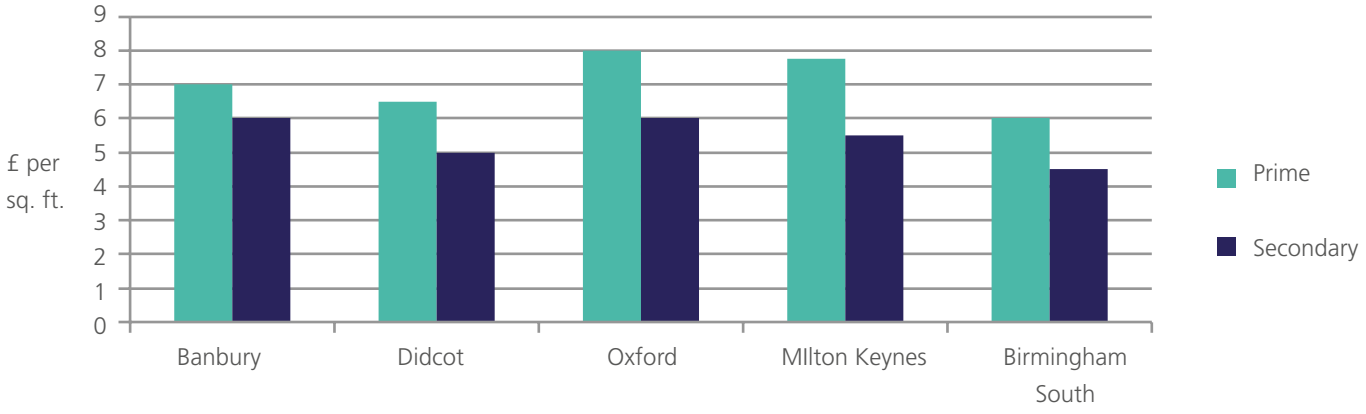
Oxfordshire has a wide range of cost effective commercial properties together with available sites for Design and Build, including a 92 hectare Enterprise Zone.

£22.00
per sq. ft.
AVERAGE
Grade A office rental

– 35 %
lower when compared to Cambridge

- Oxfordshire has a range of high quality commercial and business parks, science parks as well as serviced offices. The average office rental per sq. ft. (Grade A) is £22.00 for both Oxford City Centre and Out of Town (OOT) locations.
- The average rental per sq. ft. is considerably less than in other locations. It is 35% less than in Cambridge and 29% less than Reading. The average rental for industrial space (based on 10,000 sq. ft.) is £8.00 per sq. ft. in Oxford and £7.00 per sq. ft. in Banbury, whereas in other locations such as Reading, the average industrial rental is £9.00 per sq. ft.
- There are a number of ex-military bases in Oxfordshire suitable for track testing, including the ex US airbase at Upper Heyford, Bicester.
- Science Parks include Oxford Science Park and Begbroke Science Park. The latter houses the mathematics, physics and life sciences faculties of the University of Oxford. It also has a number of facilities available to businesses such as cleanrooms.
- Banbury, to the north of Oxford has two business parks located close to Junction 11 of the M40 (Banbury Business Park and Central M40). These provide new and existing space from 10,000 sq. ft, as well as design and build opportunities.
- The Science Vale Oxford Enterprise Zone is a 92 hectare site to the south of Oxford that comprises parts of Harwell Campus and MEPC Milton Park. The latter is a science and business park located near to Didcot which provides office, laboratory space and light industrial premises. The success of Milton Park has led to further expansion, with up to 370,000 sq. ft. (34,374 sq. m.) of new, high quality commercial office and research space to be developed.
- Science Vale Oxford Enterprise Zone offers occupiers a number of benefits including, a business rate discount worth up to £275,000 over five years, as well as, support for superfast broadband.

Average Prime and Secondary Industrial Rentals (based on 10,0000 to 30,000 sq. ft.) Collier International, 2015



Connectivity

Oxfordshire has outstanding transport infrastructure; with excellent motorway and railway access to the UK's main cities – London is just one hour 30 minutes drive away.

Distances and Drive Times from Locations in Oxfordshire to Selected Cities

Location	Oxford	Banbury
Birmingham	80 miles 129 km 1hr 50mins	52 miles 83 km 1hr 5min
Cambridge	106 miles 107 km 2hr 30 mins	86 miles 138 km 2 hr 10mins
London	60 miles 97 km 1hr 30mins	78 miles 126 km 2hr 10mins
Manchester	161 miles 259 km 3hr 30mins	135 miles 217 km 2hr 50mins
Bristol	85 miles 137 km 1hr 50mins	79 miles 127 km 2hr

From Oxfordshire, key UK cities are easily and efficiently accessible by motorway: London and Birmingham in one hour 30 minutes and Manchester in under three hours.

Oxfordshire is within quick and easy access to key UK international airports; Heathrow and Birmingham are accessible by road in one hour and Gatwick in two hours.

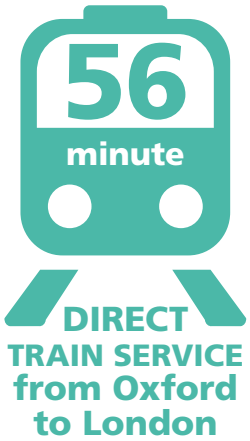
With its excellent motorway, rail and airport links, Oxfordshire is an ideal location from which to access national and international clients and markets

Superfast Broadband

Businesses based in Oxfordshire can benefit from access to superfast broadband, with over 90% of Oxfordshire able to access broadband at a minimum of 24Mb/s. SuperConnected Oxford is a programme to enable superfast broadband access for everyone and everywhere in Oxford. Wifi Hotspots are being created as part of an extensive Wifi zone around the city.

Distances from locations in Oxfordshire to Selected Airports

Airport	Oxford	Banbury
Heathrow	47 miles 76 km 1hr	65 miles 105 km 2hrs
Gatwick	85 miles 136 km 2hrs	102 miles 164 km 2hrs 30mins
Birmingham	66 miles 106 km 1hr 30mins	40 miles 64 km 1hr



Business Support

Invest in Oxfordshire is a comprehensive service to support companies in establishing their operations locally

Invest in Oxfordshire provides a comprehensive package of support to assist companies in establishing their new operation in the area:

- Co-ordination and identification of commercial premises and property viewings
- Facilitation of introductions to the University of Oxford and Oxford Brookes University
- Introduction to other research facilities, including the Science and Technology Facilities Council and Rutherford Appleton Laboratory on Harwell Campus
- Connecting businesses with professional service providers, signpost to business support organisations such as Oxfordshire Business Support and sector specific networks as well as Network Navigators
- Assistance in recruitment of new staff, such as graduate recruitment and training support including apprenticeships
- Support in the relocation of employees and their families moving into the area
- Provision of ongoing aftercare to Oxfordshire based companies

There is a wide range of support for automotive related businesses. This includes amongst others, the following:

- **Oxford Materials Characterisation Services** at the University of Oxford. The centre offers a comprehensive service for the investigation of materials and material related projects. The centre works with companies across a variety of industries including automotive, aerospace and electronics.
- **Oxford Brookes University** provides a significant programme of support to the automotive and motorsports industry; from Original Equipment Manufacturers (OEM) to Tier 1 and Tier 2 suppliers. Examples of support include composite analysis for OEMs such as Bentley and electric vehicle development for BMW. End-of-life vehicles and materials recovery are also growing areas, as are engine optimisation, performance testing, noise and vibration analysis and emissions assessment. The University has a purpose built Engineering Centre which offers extensive facilities including a four post rig and engine test cells with emission monitoring equipment.

For more information contact:

invest@investinoxfordshire.com
www.investinoxfordshire.com
@InvestInOxon

Our Priorities

people

Deliver and attract specialist and flexible skills at all levels, across all sectors, as required by our businesses, with full, inclusive employment and fulfilling jobs.

place

Provide the quality environment and choice of homes needed to support growth and capitalise upon the exceptional quality of life, vibrant economy and the dynamic urban and rural communities of our county.

enterprise

Encourage innovation led growth, underpinned by Oxfordshire's strengths in University research and development, business collaboration and supply chain potential.

connectivity

Allow people to move freely, connect easily and provide the services, environment and facilities needed by a dynamic, growing and dispersed economy.

If you require this document in any other format, please contact info@oxfordshirelep.com

OxLEP
driving economic growth

info@oxfordshirelep.com
www.oxfordshirelep.com

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