Advanced Automotive
Intelligent – Networked – Innovative: The smart choice is Surrey.
Why Surrey?
Summary

- Opportunities to collaborate with a cluster of leading internationally renowned technology-led companies including McLaren, Frazer Nash Research, Alexander Dennis and Gordon Murray Design.
- A pool of highly skilled graduates supported by further and higher education.
- Unique links to leading-edge technologies, including 5G and other digital enabling technologies.
- Dedicated creative and innovative working space in dynamic and tech-focused environments:
  - Surrey Research Park
- A long established and successful history in leading innovation and technical advances in the automotive sector. From the birth place of British motorsport at Brooklands to the development of the latest personalised and electric transport solutions.
Excellent connectivity

- Immediate proximity to London, without the high-cost.
- Well connected to the high-technology hubs along the M3 and M4 corridors.
- Borders the UK's two largest airports, **London Gatwick** and **London Heathrow**. London Gatwick serves 47 out of the top 50 European business destinations.

**London Gatwick** serves +200 destinations in 90 countries. **London Heathrow** serves 185 destinations in 84 countries.
5G Innovation Centre
The ‘internet of things (IoT)’ underpins technological advances in advanced automotive and Surrey is at the forefront of the IoT. The 5G Innovation Centre at the University of Surrey is the UK’s largest academic research centre dedicated to the development of the next generation of wireless and mobile communications, and offers access to an on-site 5G test bed.

The 5GIC is committed to collaborating closely with a broad range of partners to drive forward advanced wireless research, reduce the risks of implementing 5G (through a 5G testbed) and contribute to global 5G standardisation.
Further Education colleges are engaged with the industry by designing and delivering relevant training solutions to support and enable employers to increase their productivity and grow.

Further Education Colleges specialising in engineering courses to support the automotive industry. Brooklands College delivers a foundation Degree in Motorsport Engineering and supports its own motorsports team.

Farnborough College of Technology’s Aerospace and Automotive Academy is a state of the art dedicated department to deliver a range of engineering courses to support the sector.
University of Surrey’s Centre for Automotive Engineering (CAE) aims to provide world class technical research for vehicle analysis in the following key areas:

- All electric and hybrid powertrains, vehicle dynamics simulation, tyre dynamics simulation, design and simulation of vehicle subsystems, design of experimental test benches, lightweight chassis design and vehicle aerodynamics.

There an active Surrey University Racing Technology and Engineering Solutions student team with a dedicated workshop co-located below the new £0.5m Engineering Design Centre.

Underpinned by Automotive Engineering degrees which is a unique programme that focuses on new and emerging sustainable automotive technologies (such as electric vehicles).

Team Surtees is the University of Surrey’s in-house racing team; run by mostly engineering and business students. Academic and technical staff provide guidance when required. Every year team SURTES seeks to design and manufacture ever lighter, more powerful racing cars to compete in the Formula Student Competition.
A Global Industry Cluster
An global industry cluster
Case study – McLaren

McLaren Automotive has established itself as a worldwide brand, celebrating the production of its 10,000th car in December 2016 and selling into 30 global markets. With the new 720s, McLaren Automotive aims to raise the benchmark in automotive design.

The McLaren Group, based in Woking at the McLaren Technology Centre is the corporate and production headquarters; employing 3400 people, and in 2016 had a combined turnover of £898 million. McLaren Technology Group encompasses McLaren Applied Technologies, McLaren Marketing, and McLaren Racing which has won 182 Formula 1 Grands Prix and 20 Formula 1 World Championships - McLaren Honda Formula One Racing Team.
Case study – Carlin

Carlin, based in Farnham are one of the largest teams outside Formula 1 with race winning experience in a variety of championships including British F3, Porsche Supercup, World Series by Nissan, Formula Renault 3.5, A1GP, FIA Formula 3 European Championship, GP3 Series and GP2 Series.

Some of today’s most successful drivers have passed through the doors of Carlin, including racers in F1, IndyCar, WTCC and DTM. F1 drivers such as Sebastian Vettel, Daniel Ricciardo, Kevin Magnussen and Daniil Kvyat.

Carlin have developed fully flexible programmes to deliver the basic concepts of formula car driving, developing all the skills necessary for a better way of winning. Their vision is to ensure drivers are absolutely ready to race competitively the day they are 16 years old.
Case study – Research and Development and Design

Gordon Murray Design has built a global reputation as one of the ‘finest automotive design teams in the World’. Developing an innovative and disruptive manufacturing technology trademarked iStream®.

Current collaborations include TVR, Yamaha, and OX for Global Vehicle Trust.
Case study – Research and Development and Design

Frazer-Nash Research Ltd, a Kamkorp Company, based in Mytchett; researches, develops, and tests hardware and software solutions for clean transportation. Developing a unique range extended electric powertrain, a drive train solution for electric vehicles, hybrid electric vehicles, and plug-in hybrid electric vehicles.

All components of the powertrain are designed in-house, ensuring maximum compatibility, efficiency and functionality. Bristol Cars, Metro Cab are part of the Kamkorp Group.

Based in Ripley, Drive Automotive Design, work with international automotive companies to steer successful design solutions. Whether researching customer behaviour, imparting design trends or generating concept ideas, their passion and creative experience shows in everything they do. ‘Creativity is a journey, not a destination’.
Case study – Track Facilities

Located on the famous Brooklands site in Weybridge, **Mercedes Benz World** offers a range of Driving Experiences on the Handling Circuit in a range of Mercedes-Benz vehicles, with the Silver Arrows Display Team providing regular displays. Off the track, there are fascinating and legendary Mercedes-Benz vehicles on display.

Made famous by BBC's Top Gear, **Dunsfold Park** caters for car testing and filming to driver training and customer workshops. Only 40 miles from Central London and an operational airfield.

**Longcross** was used to test 80 ton army tanks, the test track is 2 miles long and banked on four corners, now used for car launches, testing and events. The mile long snake course represents a country road, and has a range of long sweeping bends and inclines. There is also an ¾ mile off-road course.
Case study – Head Offices

Based at a state-of-the-art HQ in Burgh Heath. **Toyota (GB)** is the sales and marketing arm for Toyota and Lexus in the UK. The world’s leading automotive company, sold over 100,000 cars in the UK in 2016.

In 2014 BMW Group UK moved into offices in in Farnborough, the 1,300-strong workforce operate across the three commercial divisions in the UK – BMW (UK) Ltd, BMW Group Financial Services (GB) Ltd, and business mobility solutions provider, Alphabet (GB) Ltd.

Kia Motors UK moved to its HQ in Walton-on-Thames in December 2012. The head office provides a range of corporate functions for the company’s operations.
Cummins UK provides new equipment sales and full aftermarket support for wide range of applications, such as; Agriculture, Automotive, Construction, Defence, Marine, Mining and Oil & Gas. The US owned company is based in Staines-upon-Thames.

Belron International are the world's leading vehicle glass repair and replacement group. Based at Milton Park, in Egham, with 26,500 employees dispersed across 34 countries and 5 continents.

The British headquarters of Swedish owned Britax is in Chertsey and have played a major role in the development of automotive and child car safety standards helping create the world’s first standard on seat belts – the British Standard in 1960.
Case study – Commercial Vehicles

**Johnston Sweepers** is a world leading manufacturer of outdoor surface cleansing equipment. With state-of-the-art engineering design facilities and manufacturing at their Head Office in Dorking, Johnston’s global reach provides an unique insight and knowledge, experience gained in a range of international environments.

**Alexander Dennis Limited** based in Guildford are Britain’s biggest bus manufacturer, producing the UK's market leading range of innovative and fuel efficient, low floor single and double deck bus chassis and bodies.
Property options
Property options – Surrey Research Park, Guildford

**Surrey Research Park, Guildford**

- A major UK centre of excellence in technology, science, health and engineering
- A 70 acre (28.33 ha) low density development, with sites available to accommodate up to 0,000 Sqft new build
- Provides units in Surrey Technology Centre between 220 and 880 sq ft, available on licence or flexible lease terms
- Home to over 110 companies engaged in a broad spectrum of research, development and design activities

For more information, visit: [Surrey Research Park](#)

Or contact us at Invest in Surrey:

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Property options – EZ³ – Enterprise Zone - Longcross

Designated as both a Garden Village and a part of EZ³ – The London & Innovation Valley - Enterprise Zone, Longcross Park has planning consent for 79,000sq.m of state-of-the-art contemporary office space, together with cafes, retail and childcare facilities; all set alongside 200 high quality homes with gardens and play areas.

HQ offices can be provided on a bespoke basis either as individual buildings or as a complete campus. With a focus on place making, highly efficient buildings and excellent communications, Longcross Park will truly benefit your business.

As an Enterprise Zone, Longcross Park offers business rate exemption to eligible occupiers. This provides a great opportunity to attract market leading businesses to the site.

For more information, visit: Longcross Park

Or contact us at Invest in Surrey:
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How we can help
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Invest in Surrey will:

• Work with you to help you define your location / expansion needs.
• Assist you with your planned move / expansion.
• Undertake property searches and specific research to support your move / expansion.
• Provide introductions and engagement with local networks and professionals, specific to your sector.
• Facilitate meetings or provide other support to help your business navigate regulatory requirements.

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