
Aerospace Overview

The UK Aerospace and Defence industry is the second largest in the world, second only to the USA. Almost 10,000 people in the East of England are employed directly in aerospace, with another 30,000 in the wider supply chain.

Within Luton, aerospace accounts for 9% of all businesses and 5% of all employment. It is a growing sector, with annual growth rates of 7.5% new businesses per year. There are 323 aerospace and related businesses in the Luton City Growth Area, employing 2,120 people. In fact, the number of employees is steadily increasing at a rate of 5% per year.

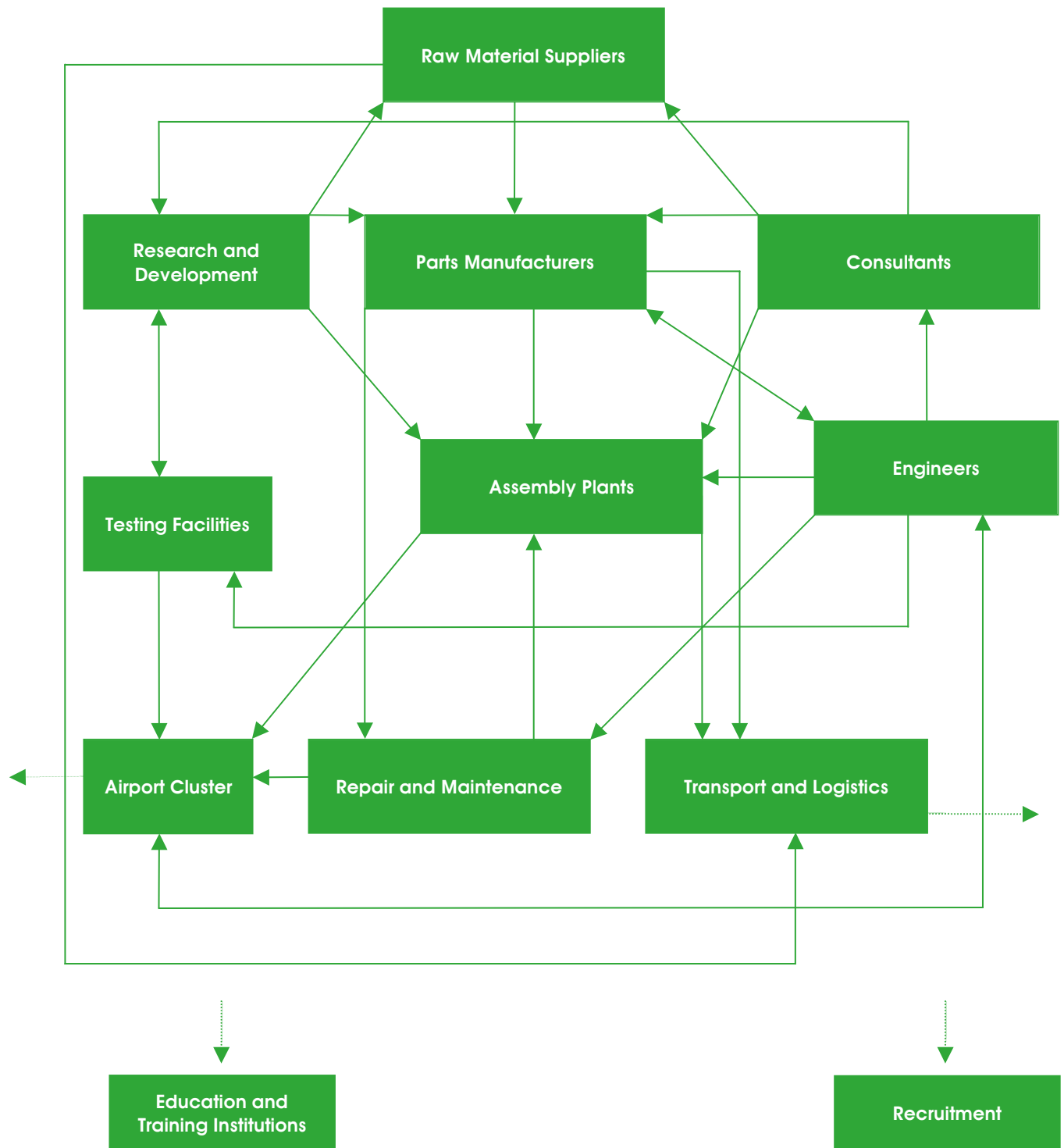
The East of England is home to some of the world's leading Aerospace corporations – boasting companies producing and exporting satellites, space launch rockets, radar and avionics equipment, as well as civil and military maintenance and repair operations.

Bedfordshire and Luton are proud of many world class, high-tech aerospace companies and facilities. BAE's new avionics engineering facility at Capability Green Business Park, and the 90 acre Butterfield Green Innovation Centre are just an indicator of the increasing levels of local investment in this industry.

The area also benefits from strong research and development capabilities including Cranfield University, University of Luton, Cranfield Technology Park, Millbrook and Unilever's research establishment, which all help to attract highly skilled personnel and world class companies to locate in the area.

(Source: ABI, 2003, Luton City Growth Strategy 2006)

Aerospace Cluster Diagram



Aerospace Companies By Function

Cluster Core

Manufacturers - Axis Electronics; B/E Aerospace (UK) Ltd; Cabletronics Ltd; Frank Brown & Son (Luton) Ltd; GKN Aerospace Transparency Systems Ltd; High-Tech Engineering Ltd; Jewers Doors Ltd; Lockheed Martin UK INSYS Ltd; Wellvill Engineering Co Ltd

Repair & Maintenance - Gulfstream Aerospace Ltd; Honeywell Aerospace Ltd; IAE Ltd; LH Prohone; Monarch Aircraft Engineering Ltd; Raytheon Aircraft Company

Inputs and Suppliers

R&D incl. Design - Aircraft Research Association; Ceema Technology Ltd; Cranfield Aerospace; Epsilon Structural Analysis Ltd; IAE Ltd; MacDonald Humphrey (Automation) Ltd; Selex Sensors & Airborne Systems Ltd

Raw Material Suppliers - Advanced Metals International; Autair Freight Services; Aviation Metals Ltd; ComAero Fasteners Ltd; Cranfield Aerospace; Fernau Avionics Ltd; INCAT Ltd; M&G GB Ltd; Modis International Ltd; The Power Supply Shop; Thermal Engineering plc; Transtar Metals Ltd

Engineers - Bruel & Kjaer (UK) Ltd; Ceema Technology Ltd; Epsilon Structural Analysis Ltd; Monarch Aircraft Engineering Ltd

Assembly - Cabletronics Ltd; Lockheed Martin UK INSYS Ltd; Thermal Engineering plc

Testing Facilities - Aircraft Research Association; Bruel & Kjaer (UK) Ltd; Cranfield Aerospace; IAE Ltd

Specialised Institutions

Educational Institutions - Barnfield College; Bedford College; Cranfield College of Aeronautics; Cranfield University; Dunstable College; The University of Hertfordshire; The University of Luton

Other - Hertfordshire Business Incubation Centre; London Luton Airport Ltd; M1 Knowledge Exchange

Critical Support to Cluster

Transport & Logistics - Autair Freight Services; Lockheed Martin UK INSYS Ltd; MacDonald Humphrey (Automation) Ltd

Recruitment & Personnel - Ceema Technology Ltd; EEF Mid Anglian Association; Foster Thorn & Associates; Red Recruitment

Marketing & Promotion - Ark H Handling; Bluefin Marketing Ltd; Continental Data Graphics Ltd

Aerospace Companies, Product Descriptions & Contact Details

Advanced Metals International

Stockholders of aircraft metal, aluminium/alloy bar/section, American specification metal, magnesium alloy, nickel alloy, stainless steel, titanium. Also distributors of fasteners (aircraft/aerospace industry), wire & steel special or speciality, racing car supply services, stainless steel (duplex type) stockholders & stainless steel (duplex type) sheet & plate stockholders.

Aircraft Research Association Ltd

The Aircraft Research Association is an independent non-profit research and development organisation that was set up in 1952 as a wind tunnel test centre for the UK aircraft industry. ARA offers the complementary services of the aerodynamic design cycle - computational fluid dynamics to develop the aerodynamic lines, the design and fabrication of wind tunnel models, the installation and test of the models in its experimental facilities and the analysis of the data.

Ark-H Handling

Manage and handle mailing activity, fulfilment, e-business operations, point of sale assignments, promotional redemption, call-centre requirements and competitions.

Autair Freight Services

Supply and delivery of components and aircraft materials to airlines. International Freight forwarders, handling exports and imports worldwide, including shipment of hazardous goods.

Aviation Metals Ltd

Suppliers of metallic and non-metallic wrought products for use in airframe and component manufacture. Stockists of metallic materials, nickel alloy materials, steel materials, superalloys, titanium and titanium alloy materials, tubes and tube manipulations.

Axis Electronics

Electronics company whose products include aerospace equipment, air traffic control equipment, aircraft systems and equipment, runway incursion prevention and runway occupancy up improvements.

Barnfield College

Mechanical, production, electrical and maintenance engineering courses. Fabrication facilities. Apprenticeships. Designated Centre of Vocational Excellence for Motor Vehicle Engineering.

B/E Aerospace (UK) Ltd

Manufacturer of cabin interior products for commercial aircraft and business jets, and aftermarket distributor of aerospace fasteners. B/E sells directly to the world's airlines and also provides aircraft cabin interior design, reconfiguration and passenger-to-freighter conversion services

Advanced Metals International

Unit 3, Oldhams Trading Estate
St Albans Rd, Watford
Hertfordshire, WD24 7RY
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Aircraft Research Association Ltd

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Bedfordshire, MK41 7PF
Tel: 01234 350 681 Fax: 01234 328 584

Ark-H Handling

Unit 1, Kenneth Way
Wilstead, Bedfordshire
MK45 3PD
Tel: 01234 742 777 Fax: 01234 742 999

Autair Freight Services

Unit 1 Airport Executive Park
President Way, LU2 9NY
Tel: 01582 630 217 Fax: 01582 413 219

Aviation Metals Ltd

Michigan Drive, Tongwell
Milton Keynes, Buckinghamshire
MK15 8JE
Tel: 01908 210 012 Fax: 01908 210 066
www.apollometals.com
Contact: Mark Baird

Axis Electronics

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Manton Lane
Bedford, Bedfordshire
MK41 7NY
Tel: 01234 342 932 Fax: 01234 364 941

Barnfield Technology Centre

Enterprise Way
Luton, LU3 4BU
Tel: 01582 569 500

B/E Aerospace (UK) Ltd

Nissen House, Grovebury Road
Leighton Buzzard
Bedfordshire, LU7 4TB
Tel: 01525 854 854 Fax: 01525 85 3316
www.beaerospace.com

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| <p>Bedford College Provider of aerospace training, including full-time City & Guilds 2661 Aerospace Competencies and full-time and part-time BTEC qualifications.</p> | <p>Bedford College Enquiries Department Cauldwell Street, Bedford MK42 9AH Tel: 01234 291 000 Fax: 01234 342 674</p> |
| <p>Bluefin Marketing Ltd Marketing agency for aerospace companies.</p> | <p>Bluefin Marketing Ltd Bramingham Business Centre Enterprise Way, Luton Bedfordshire, LU3 4BU Tel: 01582 511 213 Fax: 01582 750 530 www.bluefinmarketing.co.uk Contact: Louise Basquill</p> |
| <p>Bruel & Kjaer (UK) Ltd Noise & vibration equipment engineers.</p> | <p>Bruel & Kjaer (UK) Ltd Bedford House Rutherford Close Stevenage, Hertfordshire SG1 2ND Tel: 01438 739 000 Fax: 01438 739 099 www.bksv.co.uk</p> |
| <p>Cabletronics Ltd Assembly and manufacturing solutions to Electronics, Aerospace, Retail, Broadcasting, Telecoms, Reprographics, Military and other such fields.</p> | <p>Cabletronics Ltd 35A Saffron Road Biggleswade Bedfordshire, SG18 8DJ Tel: 01767 312 127 Fax: 01767 317 172</p> |
| <p>Ceema Technology Ltd Design, engineering and recruitment company.</p> | <p>Ceema Technology Ltd 4 The Omega Centre Stratton Business Park, London Road Biggleswade SG18 8QB Bedfordshire Tel: 01767 319 500 Fax: 01767 317 621 www.ceema.com</p> |
| <p>ComAero Fasteners Ltd Supplies aerospace and commercial fasteners. From hard to source items, small batch quantities, contract supplies, kits and ad-hoc requirements, ComAero supplies fasteners to the original manufacturing and maintenance industries along with the stockist and distributor network.</p> | <p>ComAero Fasteners Park House, 15-19 Greenhill Crescent Watford Business Park Watford Hertfordshire WD18 8PH Tel: 01923 227 766 Fax: 01923 227 891 www.comaerofasteners.co.uk</p> |
| <p>Continental Data Graphics Ltd Technical publications including IPC's. Web based portals.</p> | <p>Continental Data Graphics Ltd Gate House, Fretherne Road Welwyn Garden City Hertfordshire, AL8 6NS Tel 01707 392 520 Fax: 01707 371 813 www.cdgl.com cmoore@cdgl.com Contact: Chris Moore</p> |
| <p>Cranfield Aerospace Specialised conversion of military and civil aircraft; Turnkey services for flight evaluation and testing; Integration and supply of flight controls for manned and unmanned aircraft; Design and manufacture of UAV systems. Motion cue systems for flight simulation and training. Customised high speed data acquisition and analysis, runway and helideck friction surveys; evaluation of dynamic mechanical environments.</p> | <p>Cranfield Aerospace Cranfield, Bedford MK43 0AL Tel: 01234 754 046 Fax: 01234 751 181</p> |

Cranfield College of Aeronautics

Cranfield College of Aeronautics (CCoA) is a pan university entity. Drawing together aerospace capabilities from across Cranfield University including School of Management, School of Industrial and Manufacturing Science together with our aerospace related activities at Shrivenham through our involvement with the Royal Military College of Science and at our Silsoe campus.

Additionally, we have access to Cranfield Aerospace Ltd with its ability to design, build and test aircraft on the Cranfield campus. This places CCoA in a unique position to address the increasingly complex multi-disciplinary issues facing today's aerospace community. We are therefore able to develop and deliver solutions to large multinational clients and SME's in the aerospace sector, offering CPD, post graduate education, research and consultancy.

Cranfield University

The University offers at least 12 Masters courses relevant to the Aerospace industry through its Department of Aerospace Sciences, Department of Air Transport as well as the Department of Power, Propulsion and Aerospace Engineering amongst others. PhD studentships and various short courses are also available.

Dunstable College

Educational institution offering courses in Engineering.

EEF Mid Anglian Association

Employers Association.

Epsilon Structural Analysis Ltd

Provides aerospace design and engineering services.

Fernau Avionics Ltd

Fernau provides customer support throughout the life cycle of a project offering capability in development, system design, finance, project management, and system integration. Fernau has the management expertise to implement projects ranging from airport airside systems to marine traffic management systems.

Foster Thorn & Associates

Specialist management and executive recruitment consultants, search and selection, specifically for the Aerospace and Airline industries.

Cranfield College of Aeronautics

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Cranfield University

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Contact: Paul Marshall

Dunstable College

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EEF Mid Anglian Association

54 High Street
Sandy, Bedfordshire
SG19 1AJ
Tel: 01582 621 310 Fax: 01582 623 785

Epsilon Structural Analysis Ltd

Suite 9 Premier House, Argyle Way
Stevenage, SG1 2AD
Tel: 0870 190 9431 Fax: 0870 190 9432

Fernau Avionics Ltd

Unit C, Airport Executive Park
President Way
Luton, Bedfordshire
LU2 9NY
Tel: 01582 483 111 Fax: 01582 484 404
Contact: Kerrie Maclaughlan

Foster Thorn & Associates

Aerospace Executive Appointments
Millstream House, 5 Westell Close
Baldock
SG7 6RY
Tel: 01462 491 716 Fax: 01462 894 482
Contact: Ian Foster

Frank Brown & Son (Luton) Ltd

Designers and manufacturers of aircraft and engine ground support equipment and special tooling. Designers and manufacturers of Breco "Steppast Jacks". Designers, manufacturers and testers of lifting equipment.

GKN Aerospace Transparency Systems Ltd

GKN Aerospace Transparency Systems specialise in the design, development, testing, manufacture and support of transparency technologies and ice protection systems. The company is a division of GKN Aerospace Services. The Luton site focuses on the production of cockpit canopies and flight deck windows, electrothermal ice protection systems and electroluminescent lighting.

Gulfstream Aerospace Ltd

Service and Maintenance of Gulfstream aircraft.

Hertfordshire Business Incubation Centre

The Hertfordshire Business Incubation Centre (HBIC) was established in 2003 to support the Aerospace, Biotechnology and Information and Communications (ICT) industry. HBIC works with small and large companies, both onsite at the Business and Technology Centre and throughout the six counties in the East of England. HBIC provides business incubation and training services as well as opportunities for networking through seminars and specifically targeted symposiums and conferences including personal introductions through trusted relationships.

High-Tech Engineering Ltd

Manufactures quality precision components in the scientific, aerospace, motor sport and electronics industries. High-Tech Engineering has also undertaken the refurbishment of radar scanners, electro-mechanical assemblies and the design and manufacture of a crash-test photographic lamp for an automotive proving ground.

Honeywell Aerospace Ltd

Honeywell's Luton facility is the largest repair and overhaul facility in Europe, Middle East and Africa for the ALF/LF 502/507 series turbofan engine, as installed in the BAe146 and RJ regional aircraft. A state-of-the-art fan test cell supports their repair operations with testing capabilities up to 25,000lbs thrust.

IAE Ltd

One stop service for all private and commercial aircraft. Products and services include aircraft repair, maintenance and overhaul; design, installation and integration of equipment; ground and airborne avionics testing; autopilot installation and aircraft sales.

INCAT Ltd

INCAT is headquartered in the UK (London) and in North America (Detroit). Tata Technologies is headquartered in Pune, India. The organisations have a combined work force of more than 3,000 employees serving clients worldwide from facilities in North America, Europe and the Asia-Pacific region.

Frank Brown & Son (Luton) Ltd

87-105 Wingate Road
Luton, LU4 8QA
Tel: 01582 597 246 Fax: 01582 505 959

GKN Aerospace Transparency Systems Ltd

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London Luton Airport
Luton, Bedfordshire
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Tel: 01582 731 441 Fax: 01582 423 456

Gulfstream Aerospace Ltd

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Tel: 01582 506 657 Fax: 01582 506 680

Hertfordshire Business Incubation Centre

Business and Technology Centre
Bessemer Drive
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High-Tech Engineering Ltd

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Honeywell Aerospace Ltd

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IAE Ltd

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INCAT Ltd

INCAT House, Prospect Way
London Luton Airport
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Jewers Doors Limited

Jewers Doors Ltd is a privately owned family company dedicated to the design, manufacture and installation of Sliding Folding Industrial Doors and Aircraft Hangar Doors.

The company manufactures the world renowned Esavian aircraft hangar door range and the Phoenix industrial door range.

In addition, we specialise in the design of bespoke doors for Special Projects.

LH Prohone

Honing and super finishing, aerospace design, engineering, repair and overhaul services and supply of engine components.

Lockheed Martin UK INSYS Ltd

The company's experience and capabilities range from Future Concepts, Communication and Information Systems, Combat Systems and support systems on or close to the battlefield. This is supported by a Manufacturing capability specialising in mechanical and composite components and system assembly.

London Luton Airport Ltd

Management of London Luton Airport.

M&G GB Ltd

Precision Seamless Aluminium Tube, Pure and High Strength Alloys.

M1 Knowledge Exchange

An initiative of the University of Luton, in collaboration with Cranfield University, to support small-to-medium-sized Science, Engineering, Technology and Manufacturing (SETM) businesses in Bedfordshire and surrounding counties.

MacDonald Humphrey (Automation) Ltd

One of the very true turn key system integrators in automation and control systems who undertake all aspects of a control and automation project utilising in- house resource. Vast experience in baggage handling and security screening systems and also undertake the design manufacture and supply of innovative LED display systems adopting embedded PC technology. MacDonald Humphrey (Automation) Ltd will undertake all or any single element of a project.

Modis International Ltd

Suppliers for the defence and civilian industry. Modis also provide project management and project support services as well as contract and permanent staff.

Jewers Doors Ltd

Stratton Business Park
Biggleswade
Bedfordshire
SG18 8QB

Tel: 01767 317090 Fax: 01767 312305
postroom@jewersdoors.co.uk
Contact: Mark Jewers / Jonathan Jewers

LH Prohone

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Tel: 01582 451 701 Fax: 01582 454 862

Lockheed Martin UK INSYS Ltd

Reddings Wood
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London Luton Airport Ltd

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Tel: 01582 405 100
www.london-luton.co.uk

M&G GB Ltd

Caxton Way, Stevenage
Herts. SG1 2DF

Tel: 01438 747 999 Fax: 01438 747 070
Email:
Contact: Pete Reeves

M1 Knowledge Exchange

University of Luton
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Tel: 0800 328 5334 Fax: 01582 489 093

MacDonald Humphrey (Automation) Ltd

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Tel: 01582 405 741 Fax: 01582 453 237

Modis International Ltd

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| <p>Monarch Aircraft Engineering Ltd Aircraft engineering and maintenance.</p> | <p>Monarch Aircraft Engineering Ltd London Luton Airport, Luton Bedfordshire, LU2 9NU Tel: 01582 400 000 Fax: 01582 411 004</p> |
| <p>Raytheon Aircraft Company Aircraft sales and support facilities including aircraft servicing and modification, air traffic control, systems and battlespace management and navigation systems.</p> | <p>Raytheon Aircraft Company Hangar 125 Percival Way London Luton Airport Luton, Bedfordshire LU2 9NT Tel: 01582 483 160 Fax: 01582 483 161</p> |
| <p>Red Recruitment Recruitment services.</p> | <p>Red Recruitment Trinity House, 26b Chapel Street Luton, Bedfordshire LU1 2SE Tel: 01582 454 520 Fax: 01582 458 585</p> |
| <p>Selex Sensors & Airborne Systems Ltd Avionics Engineering Design. Specialises in developing integrated sensor solutions for land, naval and airborne defence electronics requirements. Capability for design, development, manufacture and in-service support.</p> | <p>Selex Sensors & Airborne Systems Ltd 300 Capability Green Luton, Bedfordshire LU1 3PG Tel: 01582 886 000 Fax: 01582 795 900 www.baesystems.com Contact: Ian Purcell</p> |
| <p>The Power Supply Shop Power suppliers and systems.</p> | <p>The Power Supply Shop PO Box 776, Ampthill Bedford, MK45 2ZY Bedfordshire Tel: 0845 130 5090 Fax: 0845 230 5090</p> |
| <p>The University of Hertfordshire This Hatfield based University has an internationally renowned school of Aerospace, Automotive and Design Engineering offering courses including Aerospace Engineering, Aerospace Systems Engineering and Aerospace Technology Management.</p> | <p>The University of Hertfordshire College Lane Hatfield AL10 9AB Tel: 01707 284 000 Fax: 01707 284 115 info@herts.ac.uk</p> |
| <p>The University of Luton The University of Luton, in collaboration with Cranfield University, has established the M1 Knowledge Exchange to support small-to-medium-sized Science, Engineering, Technology and Manufacturing (SETM) businesses in Bedfordshire and surrounding counties.</p> | <p>The University of Luton Putteridge Bury Campus Hitchin Road Luton, LU2 8LE Tel: 0800 328 5334 Fax: 01582 489 093</p> |
| <p>Thermal Engineering plc Supplier of specialised components and assemblies to the aerospace industry. Engineered thermal insulation systems and heat shields.</p> | <p>Thermal Engineering plc Orchard Road Royston, Hertfordshire SG8 5JZ Tel: 01763 242 067 Fax: 01763 245 959 www.thermalengineering.co.uk</p> |
| <p>Transtar Metals Ltd Supplier of high performance metals to the aerospace and defence industries. The company supports the on-going requirements of aerospace, defence, and aviation operators with over 70,000 industry-specific products.</p> | <p>Transtar Metals Ltd Transtar Europe House 1 Meredews, Hertfordshire Letchworth, SG6 1WH Tel: 01462 687 650 Fax: 01462 684 642 www.transtarmetals.com sales@transtarmetals.com Contact: Rob Smith</p> |

Wellvil Engineering Co Ltd

Manufacturers of aircraft, spacecraft, motor vehicle, engine parts and other precision machinery.

Wellvil Engineering Co Ltd

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