

“WMG (Warwick Manufacturing Group) works across a broad range of industrial sectors...It has long-term relationships with many of Britain's most successful companies, from Land Rover to BAE Systems, from AstraZeneca to Rolls-Royce.”¹

-University of Warwick website

University of Warwick Military Projects 2001 - 2006

Overall Statistics

Total no. of projects	Minimum amount received from Projects	Ranking by: a) no. of projects b) amount (£)	Top 3 funders (by no. of projects)	Top 3 departments (by no. of projects)
46	£1,796,917	a) 15th= b) 23rd	1) BAE Systems 2) EPSRC 3) Rolls Royce	1) Engineering 2=) Business School 2=) Physics

School of Engineering

Source/ Sponsor/ Partner	Project	Amount	Dates
British Aerospace Systems	Company-Commissioned Business Management Teaching Programmes (NB All Delegates were Company Employees)	£?	Since 2001 ²
EPSRC, BAE Systems Plc, Ministry of Defence, Rolls Royce Plc and others	Faraday Partnership: INTERSECT: the Application of Data Fusion to a Multi Sensored Intelligent Engine	£162,669	Dec 1998 - Sept 2001 ³
EPSRC, Matra BAE Dynamics (UK) Ltd, BAE Systems Plc and others	IMI: Effective Contractual and Other Legal Obligations in Strategic Alliances in the Aero Industry (ECLOS). Within the LINK Scheme.	£181,326	Sept 1999 - Aug 2001 ⁴
DERA	Computational and Experimental Study of the Hydrodynamics of Compliant Walls in Marine Environments	£ 52,710	Sept 1999 - Sept 2002 ⁵
EPSRC and DERA (Malvern)	Micromachined Silicon Ultrasonic Transducer Arrays	£144,944	Nov 2000 - Oct 2003 ⁶
Defence Logistics Organisation	Teaching Programmes for Company Employees. Total of 63 courses. Modules titles:	£?	2001 - 2005 ⁷

Source/ Sponsor/ Partner	Project	Amount	Dates
	<ul style="list-style-type: none"> • Business and Operations Design • Business Strategy and Change Management • DLO/ ALD Foundation • Financial Analysis and Decision Making • Leading Change and Improving Personal Performance • Lean Supply Chain Management • Programme and Projects Management and • Supply Chain Relationships 		
US Navy, San Diego	The Application of Suprathreshold Stochastic Resonance to Sonar Arrays	\$60,000	May 2001 to 2003 ⁸
GKN Engage	PhD in Engineering Business Management (Part-time). Grant covers fees for sponsored student	£1,740	Oct 2001 and Oct 2002 ⁹
EPSRC, QinetiQ and others	Joint Research Equipment Initiative (JREI): An Optical Diagnostic for Making Turbulence Measurements in High Speed Airflows	£47,220	Jan 2002 - Jan 2004 ¹⁰
QinetiQ (Farnborough)	Extension to Computational and Experimental Study of the Hydrodynamics of Compliant Walls in Marine Environments	£14,120	Apr 2002 - Sept 2003 ¹¹
Smiths Aerospace	Teaching Programmes for Company Employees. Total of 42 courses. Modules run include: <ul style="list-style-type: none"> • Business Financial Management • Change Management and People (Parts 1 and 2) • Customer Relationship Management (Coaches and launch) • Programme Management • Systems Engineering (Parts 1 and 2) 	£?	2003 - 2006 ¹²
EPSRC and BAE Systems	AEROMEMSII Project	£?	2003 - 2007 (expected) ¹³
EPSRC, Rolls Royce Plc (Project Partner) and others	Force Follows Form - Study of Natural Structures: Concepts, Analysis and Applications	£142,535	Apr 2004 - Mar 2007 ¹⁴

Source/ Sponsor/ Partner	Project	Amount	Dates
EPSRC, Rolls Royce and QinetiQ	Aerodynamics and Aero-acoustics of Co-flowing Aero-engine Propulsive Jets as part of an EU collaborative programme on Coaxial Jet Noise Prediction Methods (CoJeN) which has involved a secondment to the Boeing Noise Group	£344,211	Oct 2004 - Oct 2007 ¹⁵
EPSRC and QinetiQ	Deterministic Theoretical Model for Sub-layer Streaks in Turbulent Wall Layers and its Application to Flow Control	£5,830	Jul 2005 - Dec 2006 ¹⁶
EPSRC and QinetiQ	Reduction of Skin-Friction by Use of Compliant Walls	£?	Current as of Jan 2007 ¹⁷
Large EC-supported consortium lead by BAE Systems	Flow Control by Means of Pulsed Jets	£?	Current as of Jan 2007 ¹⁸
Rolls Royce EPSRC Project partners include: • Smiths Industries, • Rolls-Royce plc, • Matra BAe Dynamics (UK) Ltd (Bristol) and • BAE Systems	Rolls-Royce Manufacturing Engineering Awards Warwick/ EPSRC Innovative Manufacturing Research Centre*	£200 £5,450,000	Current as of May 2007 ¹⁹ Oct 2001 - Sept 2006 ²⁰

School of Electrical and Electronic Engineering

Source/ Sponsor/ Partner	Project	Amount	Dates
Defence Evaluation and Research Agency (DERA)	Embedded Micromachined Ultrasonic Sensor	£78,725	Jan 1998 – Dec 2002 ²¹
Defence Research Agency	Ultrasonic Measurements in Liquids and Flow	£14,312	Sept 2003 – Dec 2003 ²²
QinetiQ	Micromachined Transducers Research within the Ultrasonics Group	£?	Recent as of Feb 2007 ²³

School of Civil and Mechanical Engineering

Source/ Sponsor/ Partner	Project	Amount	Dates
Defence Evaluation and Research Agency (DERA)	Joint Research Equipment Initiative	£8,531	Jan 2002 - Jan 2006 ²⁴

Warwick Manufacturing Group

Source/ Sponsor/ Partner	Project	Amount	Dates
British Aerospace	URA (Ultra Reliable Aircraft)	£65,802	July 1998 - Mar 2001 ²⁵
British Aerospace	Flex Tool Project	£74,236	Nov 1998 - Mar 2002 ²⁶
British Aerospace	Laminating Tooling - Feasibility	£9,500	Oct 2000 - Sept 2001 ²⁷

School of Mathematics

Source/ Sponsor /Partner	Project	Amount	Dates
British Aerospace	Numerical Modelling of Wind Tunnel Experiments	£503	June 1998 - Mar 2003 ²⁸

School of Physics

Source/ Sponsor/ Partner	Project	Amount	Dates
Defence Research Agency	ISON, High Mobility Silicon Germanium for PMOS (Positive Channel Metal Oxide Semiconductor)	£1,400	Oct 1998 - Sept 2001 ²⁹
Defence Evaluation and Research Agency (DERA)	Surface Structure Ferroelectric Thin Films	£147,147	Apr 2000 - Sept 2003 ³⁰
Defence Evaluation and Research Agency (DERA)	Investigation of InSb-SiO ₂ Interfaces	£21,829	Nov 2000 - Feb 2001 ³¹
EPSRC, Naval Research Laboratories (Project Partner), University of Bristol and others	Electrically Active Defects and Carrier Trapping in Semiconducting Diamond	£141,769	Sept 2004 - Apr 2008 ³²
EPSRC, Rolls-Royce Plc (Project Partner) and others	Combined Remote Thermography and Non-Contact Ultrasonic Inspection Using Pulsed Laser Excitation	£51,115	May 2005 - Apr 2006 ³³

School of Psychology

Source/ Sponsor/ Partner	Project	Amount	Dates
Defence Evaluation and Research Agency (DERA), BBSRC CASE (Biotechnology and Biological Sciences Research Council), Co-operative Awards in Science and Engineering Award.	An Electrophysiological Study of the Brain Processes Underlying the Effects of Mood on Task Performance	£4,200	Oct 1999 - Sept 2002 ³⁴

School of Law (Seconded to School of Engineering)

Source/ Sponsor/ Partner	Project	Amount	Date
Ministry of Defence, BAE Systems, MBDA Missile Systems, Defence Logistics Organisation and Smiths Industries	Long Term In Service Support (LOTISS)	£?	Oct 2002 onwards ³⁵

Warwick Business School

Source/ Sponsor/ Partner	Project	Amount	Dates
Defence Science and Technology Laboratory (Dstl)	MSc in Management Science and Operation Research. Grant covering tuition fees	£4,260	Dec 2002 ³⁶
Defence Science and Technology Laboratory (Dstl)	MSc in Management Science and Operation Research. Grant covering tuition fees for 2 students	£8,740	Sept 2003 ³⁷
BAE Systems	PhD in Supply Chain in Management. Grant covers one years tuition fees	£3,010	Oct 2004 - Oct 2005 ³⁸
Defence Storage and Distribution Agency	Postgraduate Diploma in Public Finance and Leadership. Grant covering fees	£15,000	Apr 2005 ³⁹
Defence Science and Technology Laboratory (Dstl)	MSc in Management Science and Operation Research. Grant covering tuition fees	£4,750	Sept 2005 ⁴⁰

Warwick Medical School

Source/ Sponsor/ Partner	Project	Amount	Dates
BAE Systems	Occupational Health. (Part-Time Short Course). Grant covering tuition fees	£2,050	Nov 2003 ⁴¹
Rolls Royce Plc	Occupational Health. (Part Time Short Course). Grant covering tuition fees	£2,255	Apr 2005 ⁴²

Innovative Manufacturing Research Centre (WIMRC)

Source/ Sponsor /Partner	Project	Amount	Dates
Rolls-Royce, QinetiQ and others	Intelligent Optical Instrumentation in Combustion (Tomography)	QinetiQ £10,000 Rolls Royce £?	Oct 2001 Onwards ⁴³

Source/ Sponsor /Partner	Project	Amount	Dates
Over 40 SBAC UK LAI member companies including: <ul style="list-style-type: none"> • Rolls Royce, • BAE Systems, • Westland Helicopters, • Smiths Aerospace and • Messier-Dowty (Smiths Group) As well as a number of Small/ Medium Enterprises	Key Research Challenges in Lean Aerospace (UK Lean Aerospace Initiative) NB Industry quotation of an aerospace industry saving of between £60 and 240 million per annum (figures from Society of British Aerospace)	£?	Feb 2002 Onwards ⁴⁴
Alvis Vickers Ltd (now BAE Systems Land Systems), Rolls Royce (joined on March 2005) and others	Knowledge Application Methodology for Knowledge Based Product Development Automation (KAM)	£?	Jan 2003 Onwards ⁴⁵
BAE Systems (Industrial), University of Cranfield, University of Leicester, University of Liverpool, University of Nottingham, University of Southampton, University of Manchester, University of Wales Swansea, University of York and Imperial College, London	Flapless Aerial Vehicle Integrated Interdisciplinary Research Programme (FLAVIIR)	£?	June 2004 Onwards ⁴⁶

Miscellaneous

Source/ Sponsor/ Partner	Project	Amount	Dates
Rolls Royce	Commissioned Research Projects. Information withheld under commercial confidentiality agreement.	£?	Since 2001 ⁴⁷
Defence Science and Technology Laboratory (Dstl)	Commissioned Research Projects. Information withheld under commercial confidentiality agreement.	£?	Since 2001 ⁴⁸

Other Projects/ Information of Note

Projects ending 2000, School of Engineering			
Source/ Sponsor/ Partner	Project	Amount	Dates
British Aerospace Plc and others	IMI: Composite Forming Tooling by Thermal Spraying (Spray & Mould)	£345,395	Aug 1997 - Aug 2000 ⁴⁹

Office of Naval Research (ONR visiting Fellowship)	Suprathreshold Stochastic Resonance	\$1,135	Jan 2000 ⁵⁰
Defence Evaluation and Research Agency (DERA)	Rapid Air-Couples Testing of Composites	£9,299	Jan 2000 - Sept 2000 ⁵¹

Notation

* This project has not been counted in the overall data for the report as it was discovered after our deadline for data collection had passed. See “Innovative Manufacturing Research Centre (WIMRC)” for related projects.

£? Denotes projects whose value we were unable to discover.

Endnotes

¹ “Crossing the Valley of Death”. Warwick Ventures University of Warwick’s Research and Development Magazine. www2.warwick.ac.uk/services/ventures/valley.pdf. 8 January 2007.

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⁸ “Grants”. University of Warwick, School of Engineering. <http://www.eng.warwick.ac.uk/staff/ngs/grants.html>. 1 February 2007.

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¹⁰ “Details of Grant”. Engineering and Physical Sciences Research Council. <http://gow.epsrc.ac.uk/ViewGrant.aspx?GrantRef=GR/R63691/01>. 1 February 2007.

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¹³ “Adam Preece – ePortfolio”. University of Warwick. <http://www2.warwick.ac.uk/cll/skills/eportfolio/students/eportfoliodirectory/current/esryav/>. 8 January 2007.

¹⁴ “Details of Grant”. Engineering and Physical Sciences Research Council. <http://gow.epsrc.ac.uk/ViewGrant.aspx?GrantRef=GR/S56016/01>. 8 January 2007. And; “Dr Wanda Lewis – Grants and Contracts”. University of Warwick. <http://www2.warwick.ac.uk/fac/sci/eng/staff/wjl/contracts/>. 8 January 2007.

¹⁵ “Professor Peter W. Carpenter”. University of Warwick. <http://www.eng.warwick.ac.uk/staff/pwc/pwc.htm>. 8 January 2007. And; “Professor Robert M. Kerr – Grants”. University of Warwick. <http://www.eng.warwick.ac.uk/staff/rmk/contracts.html>. 8 January 2007. And; “Details of Grant”. Engineering and Physical Sciences Research Council. <http://gow.epsrc.ac.uk/ViewGrant.aspx?GrantRef=GR/T06629/01>. 1 February 2007.

¹⁶ “Professor Peter W. Carpenter”. University of Warwick. <http://www.eng.warwick.ac.uk/staff/pwc/pwc.htm>. 8 January 2007. And; “Details of Grant”. Engineering and Physical Sciences Research Council.

<http://gow.epsrc.ac.uk/ViewGrant.aspx?GrantRef=EP/D03244X/1>. 8 January 2007.

¹⁷ "Professor Peter W. Carpenter". [University of Warwick](http://www.eng.warwick.ac.uk/staff/pwc/pwc.htm).
<http://www.eng.warwick.ac.uk/staff/pwc/pwc.htm>. 8 January 2007.

¹⁸ "Professor Peter W. Carpenter". [University of Warwick](http://www.eng.warwick.ac.uk/staff/pwc/pwc.htm).
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²³ "Micromachined Transducers". [University of Warwick Electrical and Electronic Engineering Division, Ultrasonics Group](http://www.eng.warwick.ac.uk/ultrasonics/).
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³⁵ "Long Term in Service Support (LOTISS)". [University of Warwick](http://www2.warwick.ac.uk/fac/sci/wimrc/p1/phase_1_projects/reswm9013/).
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³⁸ C. E. Charlton. University Secretary, University of Warwick. 11 May 2006. Sent to Fellowship of Reconciliation.

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⁴⁵ "Knowledge Application Methodology for Knowledge based Product Development Automation (KAM)". University of Warwick. http://www2.warwick.ac.uk/fac/sci/wimrc/p1/phase_1_projects/reswm9017/. 8 January 2007.

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