

“BAE Systems is the latest company to join the Corporate Liaison Programme. This builds upon multiple research collaborations already established between the company and the University of Cambridge in a variety of fields. In fact, BAE Systems represented the second largest industrial sponsor of research in the aerospace sector within the University in 2002/3.”¹

- Cambridge University Website

Cambridge University 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)
283	£42,565,637	a) 1st b) 3rd	1) Rolls Royce 2) EPSRC 3) QinetiQ	1) Engineering 2) Physics 3) Metallurgy

School of Engineering

Source/ Sponsor/ Partner	Project	Amount	Dates
EPSRC, British Aerospace Defence Ltd, Caterpillar (UK) Ltd, ASTRIUM, Westland Helicopters Ltd, Rolls Royce Plc and others	Cambridge Engineering Design Centre (EDC)	£1,821,682	Oct 1997 – Sept 2001 ²
EPSRC, Rolls Royce Plc and others	Industrial Make vs Buy Decisions	£155,482	Jan 1998 – Jan 2001 ³
EPSRC, BAE Systems Operations Ltd and others	Strategic Technology Management: Linking Technology Resources to Company Objectives	£271,948	Apr 1998 – July 2001 ⁴
EPSRC and Rolls Royce Plc	Predicting Wake-Passing Transition in Turbomachinery using an Intermittency-Conditioned Modelling Approach	£173,414	June 1998 – May 2001 ⁵
EPSRC, Rolls Royce Plc and others	Joint Research Equipment Initiative [JREI]: Application of Laser Doppler Anemometry to Turbomachinery External Aerodynamic and Combustion	£70,441	June 1998 – May 2001 ⁶

Source/ Sponsor/ Partner	Project	Amount	Dates
	Flows		
EPSRC, GKN Westland Design Services Ltd and others	Signposting Tool to Assist Risk - Reduced Tendering	£210,113	Sept 1998 – Sept 2001 ⁷
EPSRC and Rolls Royce Plc	Effects of Unsteadiness on Transistion and Laminar Separation in Turbomachines	£116,823	Jan 1999 – Dec 2001 ⁸
EPSRC and BAE Systems	DARP: Shock Boundary Layer Interaction: Direct Simulation and Experiment	£67,953	Oct 1999 – Sept 2002 ⁹
EPSRC and Rolls Royce Plc	DARP: Development of Prediction Methods for Turbine Blade Heat Transfer and Film Cooling Flows	£158,045	Jan 2000 – Dec 2002 ¹⁰
EPSRC, GKN Westland Aerospace (IoW) and others	IMI Manufacturing Infrastructure Development in the Aerospace Sector (MIDAS - Part Ii)	£122,122	Mar 2000 – Sept 2001 ¹¹
EPSRC, BAE Systems Plc, Ministry of Defence and others	Draping of Engineering Prepregs and Reinforced Thermoplastics (DEPART). Programme run jointly with University of Nottingham	£169,682	Mar 2000 – Mar 2003 ¹²
EPSRC, Westland Helicopters Ltd and Thales Underwater Systems Ltd	Transonic Helicopter Noise	£180,458	Mar 2000 – Sept 2003 ¹³
EPSRC, Rolls Royce Plc and others	IMI: DARP: Knowledge Capture, Sharing Reuse in the Design Process (KCSR)	£167,883	May 2000 – Sept 2001 ¹⁴
EPSRC, Rolls Royce Plc and others	ESR21: Oscillations in Staged Premixed Combustors	£191,468	May 2000 – Apr 2003 ¹⁵
EPSRC, Rolls Royce Plc and others	The Effect of Enterprise Context upon Manufacturing Leadership Behaviour	£84,218	Oct 2000 – Mar 2004 ¹⁶
EPSRC, Honeywell Inc and GKN Automotive Ltd	Global Manufacturing Virtual Networks: A New Architecture for Manufacturing Systems	£407,964	Nov 2000 – Oct 2003 ¹⁷
EPSRC, Dstl and British Aerospace Plc	A Unified Approach to the Assessment of Structural Integrity with Application to Optimal Design	£191,962	Nov 2000 – Aug 2004 ¹⁸
EPSRC,	Towards World Class	£122,442	Mar to Sept 2001 ¹⁹

Source/ Sponsor/ Partner	Project	Amount	Dates
BAE Systems Plc and others	Performance in Planning, Scheduling & Control: from Progress Chasers to Responsive Teams		
EPSRC and Rolls Royce Plc	Stability and Transition to Turbulence of Flows Around Rotating Cones	£162,153	Mar 2001 - June 2004 ²⁰
EPSRC, DERA, Rolls Royce Plc and others	The Relationship between Heat Transfer and Aerodynamics for Film-Cooled Axial Turbine Tip-Clearance Flow	£104,124	Mar 2001 - Dec 2004 ²¹
EPSRC, GEC – Marconi, GKN Automotive Ltd and Rolls Royce Plc	Manufacturing Futures	£252,723	April to Sept 2001 ²²
EPSRC, Rolls Royce Plc, BAE Systems Plc and others	Communication and Design Process Planning for New Product Development (COMMAND PLAN)	£358,410	Oct to Dec 2001 ²³
EPSRC, BAE Systems and others	Cambridge Engineering Design Centre	£4,350,001	Oct 2001 - Sept 2006 ²⁴
EPSRC, QinetiQ Plc, Rolls Royce Plc, GKN Plc, BAE Systems and others	Cambridge Manufacturing and Technology Centre	£2,950,005	Oct 2001 - Sept 2006 ²⁵
EPSRC, Rolls Royce Plc and others	Combustion Dynamics	£172,848	Jan 2002 – Dec 2003 ²⁶
EPSRC and Rolls Royce Plc	Professorship of Experimental Combustion	£501,589	Dec 2002 – Sept 2005 ²⁷
EPSRC and BAE Systems Plc	Innovative Manufacturing Technology Research Centre	£2,577,534	July 2003 – Mar 2007 ²⁸
EPSRC and Rolls Royce Plc	Jet Noise	£171,135	Oct 2003 – Mar 2007 ²⁹
EPSRC, BAE Systems Operations Ltd, QinetiQ Ltd, Rolls Royce Plc and others	DARP: Unsteady Aerodynamics Prediction and Simulation for Airframe and Turbomachinery Applications (PUMA) DARP	£143,678	Dec 2003 – Nov 2006 ³⁰
EPSRC, QinetiQ Ltd and others	Design Optimisation of Textile Composite Structures (DotComp)	£211,954	Jan 2004 – Dec 2006 ³¹

Source/ Sponsor/ Partner	Project	Amount	Dates
BAE Systems	BAE-RR (UTP) University Technology Partnership Research Programme	£35,087	Between Aug 2004 and July 2005 ³²
BAE Systems	Synthesis and Characterisation of 3-Dimensional Nanostructures, Student Grant	£11,250	Between Aug 2004 and July 2005 ³³
BAE Systems	Magnetic Properties of Novel Carbon Materials	£1,847	Between Aug 2004 and July 2005 ³⁴
BAE Systems (Operations) Ltd	Computer Generated Holograms for Generating Symbols and Images. Student Grant	£9,489	Between Aug 2004 and July 2005 ³⁵
BAE Systems (Operations) Ltd	BAE Systems/ Cambridge Support Solutions Partnership - Service and Support Engineering and Management/ 1 - 3	£89,165	Between Aug 2004 and July 2005 ³⁶
BAE Systems (Operations) Ltd	Holographic Techniques to Increase Viewing Angle	£5,593	Between Aug 2004 and July 2005 ³⁷
DARPA (USA)	HTK Rich Audio Transcription	£498,742	Between Aug 2004 and July 2005 ³⁸
Defence Research Agency (MoD)	Blind Signal Separation Study	£3,985	Between Aug 2004 and July 2005 ³⁹
Defence Research Agency (MoD)	Flight Control for Flexible Aircraft	£3,246	Between Aug 2004 and July 2005 ⁴⁰
Dstl	Submarine Simulation Model for Specification Model for Specification/ Optimisation of Hybrid Power Sources	£1,181	Between Aug 2004 and July 2005 ⁴¹
Dstl	System Modelling VTB and MATLAB	£14,496	Between Aug 2004 and July 2005 ⁴²
Dstl	Development of Model Predictive Control to Include Set-Point Uncertainty	£17,915	Between Aug 2004 and July 2005 ⁴³
Dstl	Deployable Structures Research	£5,000	Between Aug 2004 and July 2005 ⁴⁴
EADS Astrium Ltd	Large Deployable SAR Reflector Technology	£359	Between Aug 2004 and July 2005 ⁴⁵
EADS Astrium Ltd	GTSP Low Frequency Antenna Technology Study	£19,062	Between Aug 2004 and July 2005 ⁴⁶
EADS Astrium Ltd	BNSC Low Cost Hinge Development Study	£2,872	Between Aug 2004 and July 2005 ⁴⁷
EADS Astrium Ltd	Membrane Antenna:- Mechanically Deployed	£61	Between Aug 2004 and July 2005 ⁴⁸

Source/ Sponsor/ Partner	Project	Amount	Dates
	Superstructure		
Office of Naval Research via University of California	Mechatronic Materials and Systems	£54,699	Between Aug 2004 and July 2005 ⁴⁹
US - Office of Naval Research International Field Office	Science and Design of Blast Resistant Sandwich Structures	£103,850	Between Aug 2004 and July 2005 ⁵⁰
US - Office of Naval Research International Field Office	Studentship: The Science and Design of Erosion-Resistant Thermal Barrier Coatings	£271,000	Between Aug 2004 and July 2005 ⁵¹
Office of Naval Research via University of California	Studentship: Optimisation Tools and Methods for VTB	£8,017	Between Aug 2004 and July 2005 ⁵²
QinetiQ	Analysis of Deployable Breadboard Booms	£5,114	Between Aug 2004 and July 2005 ⁵³
QinetiQ	Extended and Joint Object Tracking and Identification	£64,476	Between Aug 2004 and July 2005 ⁵⁴
QinetiQ	Robust Interpretation of Structure Information. Student Grant	£8,537	Between Aug 2004 and July 2005 ⁵⁵
QinetiQ	Cambridge Vehicle Dynamics Vehicle Consortium	£32,518	Between Aug 2004 and July 2005 ⁵⁶
QinetiQ	Validation of Aircraft Models for Flight Control, Student Grant	£7,556	Between Aug 2004 and July 2005 ⁵⁷
QinetiQ	Studentship: Fabrication and Characterisation of Optically Addressed Spatial Light Modulators	£11,485	Between Aug 2004 and July 2005 ⁵⁸
QinetiQ	Data Fusion using Particle Filters	£2,000	Between Aug 2004 and July 2005 ⁵⁹
Rolls Royce Plc	LES for LLP Gas Turbine Combustion Instability	£22,575	Between Aug 2004 and July 2005 ⁶⁰
Rolls Royce Plc	Intermediate Pressure Turbulent Combustion	£68,938	Between Aug 2004 and July 2005 ⁶¹
Rolls Royce Plc	Highly Loaded Compressor Blades, CASE Student Award	£12,456	Between Aug 2004 and July 2005 ⁶²
Rolls Royce Plc	SUFCLEMP - Superconducting Fault Current Limiter for Electrical Marine Propulsion	£48,276	Between Aug 2004 and July 2005 ⁶³
Rolls Royce Plc	ATAP-10: Combustion Instability	£69,066	Between Aug 2004 and July 2005 ⁶⁴
Rolls Royce Plc	Flame Ignition and Stability in a Gas Turbine Combustion. CASE Studentship	£10,286	Between Aug 2004 and July 2005 ⁶⁵
Rolls Royce Plc	Modelling Ignition and Autoignition in Two-Phase	£8,409	Between Aug 2004 and July 2005 ⁶⁶

Source/ Sponsor/ Partner	Project	Amount	Dates
	Flows. CASE Studentship		
Rolls Royce Plc	Computational Design for Gas Turbine Combustion Systems. RR Case Studentship	£5,193	Between Aug 2004 and July 2005 ⁶⁷
Rolls Royce Plc	Infrastructure to Design and Optimise Cooled Turbine Components	£10,614	Between Aug 2004 and July 2005 ⁶⁸
Rolls Royce Plc	Water-Injected and Wet Cycles: Industrial Case Studentship	£6,037	Between Aug 2004 and July 2005 ⁶⁹
Rolls Royce Plc	Development and Testing of High -Speed Valves	£88	Between Aug 2004 and July 2005 ⁷⁰
Rolls Royce Plc	LP Turbine Blading Studies	£13,707	Between Aug 2004 and July 2005 ⁷¹
Rolls Royce Plc	Fuel Cell Offgas Burner. Student Grant	£16,633	Between Aug 2004 and July 2005 ⁷²
Rolls Royce Plc	Low Noise Fan OGV Design. Student Grant	£24,165	Between Aug 2004 and July 2005 ⁷³
Rolls Royce Plc	Jet Noise Studentship	£2,387	Between Aug 2004 and July 2005 ⁷⁴
Rolls Royce Plc	ATAP-10 IP Turbine	£182,781	Between Aug 2004 and July 2005 ⁷⁵
Rolls Royce Plc	Completion of Core Compressor Stability Work. Student Grant	£2,756	Between Aug 2004 and July 2005 ⁷⁶
Rolls Royce Plc	Investigation of Combustion and Instabilities in New Generation Injectors	£5,524	Between Aug 2004 and July 2005 ⁷⁷
Rolls Royce Plc	RCSC9 Air Platform Propulsion Technology Research	£8,239	Between Aug 2004 and July 2005 ⁷⁸
Rolls Royce Plc	ATAP-10: Altitude Relight and Pullaway	£83,736	Between Aug 2004 and July 2005 ⁷⁹
Rolls Royce Plc	ATAP-10: Enhanced Performance Through Aerodynamics: Optimisation of New Generation of Injectors	£50,599	Between Aug 2004 and July 2005 ⁸⁰
Rolls Royce Plc	ATAP-10: HP Turbine Aerodynamic Research - Shroud Designs	£23,517	Between Aug 2004 and July 2005 ⁸¹
Rolls Royce Plc	Rich Combustion of Kerosene in Porous Media	£2,000	Between Aug 2004 and July 2005 ⁸²
Rolls Royce Plc	Investigation of Instabilities in Fuel Cell Combustor System	£2,572	Between Aug 2004 and July 2005 ⁸³
Rolls Royce Plc	Three Dimensional Unsteady	£10,383	Between Aug 2004

Source/ Sponsor/ Partner	Project	Amount	Dates
	Flows in Compressors. Student Grant		and July 2005 ⁸⁴
Rolls Royce Plc	Analysis and Optimisation of Humidified Power Cycles. Student Grant	£7,890	Between Aug 2004 and July 2005 ⁸⁵
Rolls Royce Plc	Profiled End Walls in Compressors	£8,563	Between Aug 2004 and July 2005 ⁸⁶
Rolls Royce Plc	CASE Studentship: Modelling Fuel Cell Offgas Combustor	£5,015	Between Aug 2004 and July 2005 ⁸⁷
Rolls Royce Plc	CFD Mesh Generation	£8780	Between Aug 2004 and July 2005 ⁸⁸
Rolls Royce Plc	Turbo Machinery Aerothermal Dynamics (UTC) University Technology Centre	£696	Between Aug 2004 and July 2005 ⁸⁹
Rolls Royce Plc	The British Aerospace: Rolls Royce University Technology Partnership for Design	£40,165	Between Aug 2004 and July 2005 ⁹⁰
Rolls Royce Plc	Interactions of Intakes and Fans	£12,472	Between Aug 2004 and July 2005 ⁹¹
Rolls Royce Plc	Aerodynamic Behaviour and Design of Bleed Slots	£12,323	Between Aug 2004 and July 2005 ⁹²
Rolls Royce Plc	3D Separations in Compressors - Part 2	£18,554	Between Aug 2004 and July 2005 ⁹³
Rolls Royce Plc	Particulate and Vapour Deposition in Gas Turbines Fired on Coal-Derived Gases	£241	Between Aug 2004 and July 2005 ⁹⁴
Rolls Royce Plc	Engine Rag Cavity Calculation	£438	Between Aug 2004 and July 2005 ⁹⁵
Rolls Royce Plc	DTI/ RR Fans Collaborative Research Programme (2 grants)	£9,084	Between Aug 2004 and July 2005 ⁹⁶
Rolls Royce Plc	DTI/ RR Hydra-Computational Fluid Dynamics for Design and Optimisation of the Low Pressure Compression System	£16,694	Between Aug 2004 and July 2005 ⁹⁷
Rolls Royce Plc	Compressors Systems Technology Acquisition and Research	£85,208	Between Aug 2004 and July 2005 ⁹⁸
Rolls Royce Plc	UGTP Master Budget Part 1 Infrastructure	£200,673	Between Aug 2004 and July 2005 ⁹⁹
Rolls Royce Plc	RR Turbine Leakage (04/01 – 03/04)	£556	Between Aug 2004 and July 2005 ¹⁰⁰
Rolls Royce Plc	RR Compressor System	£0	Between Aug 2004 and July 2005 ¹⁰¹

Source/ Sponsor/ Partner	Project	Amount	Dates
Rolls Royce Plc	Studentship	£6,524	Between Aug 2004 and July 2005 ¹⁰²
Rolls Royce Plc	Solid Oxide Fuel Cell Modelling. Student Grant	£5,712	Between Aug 2004 and July 2005 ¹⁰³
Rolls Royce Plc	Trent 900 IP Turbine Research	£2,436	Between Aug 2004 and July 2005 ¹⁰⁴
Rolls Royce Plc	RR Combustion Dynamics JREI (Joint Research Equipment Initiative)	£242	Between Aug 2004 and July 2005 ¹⁰⁵
Rolls Royce Plc	Professorship of Aerothermal Technology	£505,741	Between Aug 2004 and July 2005 ¹⁰⁶
Rolls Royce Plc	CASE Top-Up: CFD and Modelling of Turbulent Combustion. Student Grant	£4,667	Between Aug 2004 and July 2005 ¹⁰⁷
Rolls Royce Plc	Combustion Instabilities Support (Muscles, ICLEAC, LOPOCOTEP)	£2,247	Between Aug 2004 and July 2005 ¹⁰⁸
Rolls Royce Plc	Trent 900 High-Aspect Ratio Rotor for IP Turbine Rig	£6,992	Between Aug 2004 and July 2005 ¹⁰⁹
Rolls Royce Plc	Design and Investigation of Turbulent Combustor. CASE Top Up, Student Grant	£1,307	Between Aug 2004 and July 2005 ¹¹⁰
Rolls Royce Plc	Pressure-Gain Combustion in Gas Turbine	£17,674	Between Aug 2004 and July 2005 ¹¹¹
Rolls Royce Plc	UGTP CFD Support	£7,407	Between Aug 2004 and July 2005 ¹¹²
Rolls Royce Plc	Hydra Solo Travel Support	£3,792	Between Aug 2004 and July 2005 ¹¹³
Rolls Royce Plc	Extension: Student Grant	£2,580	Between Aug 2004 and July 2005 ¹¹⁴
Rolls Royce Plc	Studentship: Integrated Products and Services (IPAS)	£21,609	Between Aug 2004 and July 2005 ¹¹⁵
Rolls Royce Plc	Compressor Leading Edges. Student Grant	£13,553	Between Aug 2004 and July 2005 ¹¹⁶
Rolls Royce Plc	Whittle Lab Infrastructure Support 2005	£82,814	Between Aug 2004 and July 2005 ¹¹⁷
Rolls Royce Plc	Kausis Consultancy: Advice on Combustion Technologies	£11,026	Between Aug 2004 and July 2005 ¹¹⁸
Rolls Royce Plc	Pressure Gain Combustor	£678	Between Aug 2004 and July 2005 ¹¹⁹
Rolls Royce Industrial and Marine Gas Turbines Ltd	Aspirated Compressors. CASE Student Top-Up	£8,160	Between Aug 2004 and July 2005 ¹²⁰

Source/ Sponsor/ Partner	Project	Amount	Dates
US Navy	Micromechanics-Based Design of Sandwich Panels. Student Grant	£30,633	Between Aug 2004 and July 2005 ¹²¹
US Navy	Advanced Thermal Management Concepts with Micro-Architectural Materials	£63,884	Between Aug 2004 and July 2005 ¹²²
US Navy	Cellular Foam Sound Absorbers for Controlling Combustion Instability and Naval Shin Noise	£125,759	Between Aug 2004 and July 2005 ¹²³
US Navy	Discussion Meeting on Discrete Dislocation Plasticity	£366	Between Aug 2004 and July 2005 ¹²⁴
US Navy	Synthetic Multifunctional Materials	£1,464	Between Aug 2004 and July 2005 ¹²⁵
EPSRC, Rolls Royce Plc and others	An Experimental Study of Unsteady Wake-Induced Boundary Layer Transition in Turbomachinery	£171,248	Oct 2005 - Sept 2008 ¹²⁶
EPSRC, QinetiQ Ltd and others	Active Multi-Axle Steering of Heavy Goods Vehicles	£511,248	Jan 2006 - Jan 2009 ¹²⁷
EPSRC, Thales Research Ltd and others	Smart Infrastructure: Wireless Sensor Network System for Condition Assessment and Monitoring of Infrastructure	£777,034	Oct 2006 - Sept 2009 ¹²⁸

School of Physics

Source/ Sponsor/ Partner	Project	Amount	Dates
AWE	Piezo-Electric Probes, Fundamentals and Application. Student Grant	£8387	Between Aug 2004 and July 2005 ¹²⁹
AWE	Hopkinson Bar Data for Steels	£353	Between Aug 2004 and July 2005 ¹³⁰
AWE Plc	CASE Studentship	£5,394	Between Aug 2004 and July 2005 ¹³¹
AWE Plc	Mechanical Properties and Microstructural Characterisation of PBX's	£73,982	Between Aug 2004 and July 2005 ¹³²
AWE Plc	Gas Gun Experiments for 'Effect of Protective Padding on Lateral Stress Gauge Measurements'	£4,780	Between Aug 2004 and July 2005 ¹³³
AWE Plc	Taylor Impact of Heated Specimens	£3,610	Between Aug 2004 and July 2005 ¹³⁴
AWE Plc	Porous Graphite - Material Studies	£4,356	Between Aug 2004 and July 2005 ¹³⁵

Source/ Sponsor/ Partner	Project	Amount	Dates
AWE Plc	Characterisation of Sand: Grain Size and Humidity	£692	Between Aug 2004 and July 2005 ¹³⁶
AWE/ Hunting- BRAE Ltd	Microstructural Studies of PBX Formulations	£757	Between Aug 2004 and July 2005 ¹³⁷
AWE/ Hunting- BRAE Ltd	Shock Properties of Granular Materials	£33	Between Aug 2004 and July 2005 ¹³⁸
DARPA via University of Leeds	Vertical Cavity Silicon - Germanium Quantum	£37,940	Between Aug 2004 and July 2005 ¹³⁹
Defence Research Agency (MoD)	The Physical Characteristics of Cryogenic Formulations (2 separate grants)	£4,989	Between Aug 2004 and July 2005 ¹⁴⁰
Defence Research Agency (MoD)	Dynamic Properties of Concretes and Cements (2 separate grants)	£1,309	Between Aug 2004 and July 2005 ¹⁴¹
Dstl	Energetic Materials Research	£27,475	Between Aug 2004 and July 2005 ¹⁴²
Dstl	Assistance in Instrumenting Targets for Trial (2 separate grants)	£3,437	Between Aug 2004 and July 2005 ¹⁴³
Dstl	Research Collaboration: Mechanical Properties of PBX's for Constitutive Model Development	£24,911	Between Aug 2004 and July 2005 ¹⁴⁴
Dstl	Flash Powder Studies	£13,568	Between Aug 2004 and July 2005 ¹⁴⁵
Dstl	Shock Response of Ceramics	£2,793	Between Aug 2004 and July 2005 ¹⁴⁶
Dstl	Mechanical Properties of PBX's for Constitutive Model Development	£8,543	Between Aug 2004 and July 2005 ¹⁴⁷
QinetiQ	High Strain Rate Testing of Materials, Including Studentship (3 separate grants)	£17,895 (£13,932 for Studentship)	Between Aug 2004 and July 2005 ¹⁴⁸
QinetiQ	Fellowship	£110,330	Between Aug 2004 and July 2005 ¹⁴⁹
QinetiQ	Research Studying the Measurement of the Dynamic Properties of Concretes and Cements Using Plate Impact Tests	£2,258	Between Aug 2004 and July 2005 ¹⁵⁰
QinetiQ	Provision of VISAR for Use at Fort Halstead	£1,229	Between Aug 2004 and July 2005 ¹⁵¹
QinetiQ	Shock Physics of Materials for Hydrocode Research: The Functioning of Impact Triggers	£1,878	Between Aug 2004 and July 2005 ¹⁵²

Source/ Sponsor/ Partner	Project	Amount	Dates
	(2 separate grants)		
QinetiQ	High Velocity Impact of Materials	£1,346	Between Aug 2004 and July 2005 ¹⁵³
QinetiQ	Research for Second Stage Microthruster Proof Concept Research	£958	Between Aug 2004 and July 2005 ¹⁵⁴
QinetiQ	Initiation on Novel Explosives using Laser Ignition	£1,054	Between Aug 2004 and July 2005 ¹⁵⁵
QinetiQ	New Impact Erosion Resistance Materials	£479	Between Aug 2004 and July 2005 ¹⁵⁶
QinetiQ	Impact Erosion Resistance of CVD Diamond and Coated Optics	£4,204	Between Aug 2004 and July 2005 ¹⁵⁷
US Army	Plasma - Propellant Interactions (2 separate grants)	£7,946	Between Aug 2004 and July 2005 ¹⁵⁸
US Army	Silicon Quantum Information Processing	£32,498	Between Aug 2004 and July 2005 ¹⁵⁹
US Navy	Shock Properties of Sand	£580	Between Aug 2004 and July 2005 ¹⁶⁰

School of Applied Mathematics and Theoretical Physics, Pure Applied Mathematics and Theoretical Physics, and Mathematical Statistics

Source/ Sponsor/ Partner	Project	Amount	Dates
EPSRC and Rolls Royce Plc	A Mathematical Investigation of Resonant Phenomena in Gas Turbines	£112,057	Jun 1998 - Dec 2001 ¹⁶¹
EPSRC and Rolls Royce Plc	Development and Validation of Aeroacoustic Models for Fan Noise	£124,143	Apr 1999 - Dec 2002 ¹⁶²
AWE Plc	William Pennt Fellowship: Mixing in Stratified Flows	£16,999	Between Aug 2004 and July 2005 ¹⁶³
AWE Plc	Case Studentship - Arrays of Interacting Thermals	£5,171	Between Aug 2004 and July 2005 ¹⁶⁴
AWE Plc	Case Studentship - Monotone Integrated Large Eddy Simulations or Turbulent Convective Flows	£5,170	Between Aug 2004 and July 2005 ¹⁶⁵
BAE Systems	Radar Backscattering for Statistically Rough Surfaces	£346	Between Aug 2004 and July 2005 ¹⁶⁶
Office of Naval Research	Detection of Submerged Sound Sources (NICOPS)	£13,081	Between Aug 2004 and July 2005 ¹⁶⁷
Rolls Royce Plc	CASE Studentship: Wave Propagation and Resonance in Aeroengines	£4,055	Between Aug 2004 and July 2005 ¹⁶⁸

Source/ Sponsor/ Partner	Project	Amount	Dates
US Army	Study of Buffer Size in Internet Routers	£1,584	Between Aug 2004 and July 2005 ¹⁶⁹
US Navy	Anomalous Dynamic Failure of Composites and Sandwich Structures	£6,518	Between Aug 2004 and July 2005 ¹⁷⁰
US Navy	Dynamics of Interfaces and Structures	£9,612	Between Aug 2004 and July 2005 ¹⁷¹
EPSRC and Rolls Royce Plc	Mathematical Modelling and Computational Engineering Prediction of Turbomachinery Broadband Noise	£187,657	Sept 2006 - Sept 2009 ¹⁷²
EPSRC, Boeing, Thales Research Ltd and others	Pervasive Mobile Environmental Sensor Grids	£409,416	Oct 2006 - Sept 2009 ¹⁷³

School of Chemistry

Source/ Sponsor/ Partner	Project	Amount	Dates
AWE Plc	PhD Studentship/ Polymer Brushes as Molecular Adhesives. Student Grant	£38,107	Between Aug 2004 and July 2005 ¹⁷⁴
AWE/ Hunting- BRAE Ltd	Experimental Data Requirements for the Palladium Hydride System	£16,020	Between Aug 2004 and July 2005 ¹⁷⁵
Dstl	Studentship: Polyamine Dendrimers	£26,542	Between Aug 2004 and July 2005 ¹⁷⁶
Dstl	Fabrication of Integrated Optical Waveguides as a Precursor to the Potential Development of Microcantilever	£0	Between Aug 2004 and July 2005 ¹⁷⁷
US Navy	Vibrational Studies Using Reaction Path and Reaction Surface Hamiltonians	£1,458	Between Aug 2004 and July 2005 ¹⁷⁸
AWE Plc	Synthesising Novel Heterocyclic Systems to Study Alternatives to Isocyanates for Producing Polyurethanes	£16,555	Between Aug 2004 and July 2005 ¹⁷⁹
AWE/ Hunting- BRAE Ltd	Studentship – Novel Polyurethane Precursors	£1,235	Between Aug 2004 and July 2005 ¹⁸⁰

School of Chemical Engineering

Source/ Sponsor/ Partner	Project	Amount	Dates
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Source/ Sponsor/ Partner	Project	Amount	Dates
EPSRC, Rolls Royce Plc and others	Faraday: Developing a Paste Formulation Criterion	£72,333	Oct 2003 - Mar 2007 ¹⁸¹
AWE Plc	Pyrolysis of Oils	£9,902	Between Aug 2004 and July 2005 ¹⁸²
Rolls Royce Plc	Industrial Case Award: Combustion Thermometry. Student Grant	£10,632	Between Aug 2004 and July 2005 ¹⁸³
Rolls Royce Plc	Industrial Case Award with Rolls Royce: Combustion Instabilities	£9,593	Between Aug 2004 and July 2005 ¹⁸⁴
Rolls Royce Plc	Support for the CARS System	£9,758	Between Aug 2004 and July 2005 ¹⁸⁵
EPSRC and Rolls-Royce Fuel Cell Systems Ltd	Development of a Novel Wavelength Agile Laser Sensor for Solid Oxide Fuel Cell Diagnostics	£232,864	Oct 2005 - Oct 2008 ¹⁸⁶

School of Materials Science and Metallurgy

Source/ Sponsor/ Partner	Project	Amount	Dates
EPSRC, DARPA, European Office of Aerospace Research and Development and others	Materials Electrochemistry Research Programme. Collaborators from: <ul style="list-style-type: none"> • University of Nottingham and • Imperial College London 	£?	Since 2000 ¹⁸⁷
EPSRC, British Aerospace, Dstl, Rolls Royce and others	Composites and Coatings Research Programme. Collaborators include: <ul style="list-style-type: none"> • Cranfield University • University College London and • University of Manchester <p>Involves an Advances EPSRC Research Fellow and a number of other students. Associate members include a Dstl employee.</p>	£?	Since 2002 ¹⁸⁸
EPSRC and Dstl	Mechanical and Magnetic Properties of Fibre Network Materials	£?	2003 – 2006 ¹⁸⁹
EPSRC, QinetiQ Ltd and Rolls Royce Plc	DARP: Advanced Aeroengine Materials (ADAM) - Next Generation Single Crystal and Lifing Methodologies	£464,666	Apr 2003 - Sept 2007 ¹⁹⁰

Source/ Sponsor/ Partner	Project	Amount	Dates
Rolls-Royce, QinetiQ, MoD, DTI and EPSRC (DARP)	High Temperature Alloys Research Programme. Collaborators include: <ul style="list-style-type: none"> University of Birmingham University of Manchester University of Swansea University of Oxford and Imperial College London 	£?	Since 2003 ¹⁹¹
Dstl	Energy Absorption During Ballistic Impact of Novel, Lightweight Sandwich Panels with Metallic Fibre Cores	£?	2004 – 2007 ¹⁹²
DARPA via Imperial College	Near Net Shape Titanium	£396	Between Aug 2004 and July 2005 ¹⁹³
Dstl	Studentship: Keronite Plasma Electrolytic Oxide Coatings	£4,399	Between Aug 2004 and July 2005 ¹⁹⁴
Dstl	Studentship: Actuation of Highly Porous and Permeable Metals Made from Fibre Analysis	£7,221	Between Aug 2004 and July 2005 ¹⁹⁵
Dstl	Studentship: Research into Hybrid Stainless Steel Assemblies	£37,533	Between Aug 2004 and July 2005 ¹⁹⁶
QinetiQ	Gordon Laboratory	£5,435	Between Aug 2004 and July 2005 ¹⁹⁷
QinetiQ	Advanced Aeroengine Materials (ADAM) - Next Generation Single Crystal and Lifting Methodologies	£6,405	Between Aug 2004 and July 2005 ¹⁹⁸
QinetiQ	Studentship	£1,250	Between Aug 2004 and July 2005 ¹⁹⁹
Rolls Royce Plc	Joining A1 and Ti	£1,558	Between Aug 2004 and July 2005 ²⁰⁰
Rolls Royce Plc	ADAM (Advances Aeroengine Materials) Next Generation Single Crystal and Lifting Methodologies	£6,776	Between Aug 2004 and July 2005 ²⁰¹
Rolls Royce Plc	Thermomechanical Fatigue of Single Crystal Superalloys	£3,531	Between Aug 2004 and July 2005 ²⁰²
Rolls Royce Plc	Rolls Royce UTC University Technology Centre	£111,217	Between Aug 2004 and July 2005 ²⁰³
US Army	Modelling of Percolation in Carbon Nanotube Polymer Composites	£25,524	Between Aug 2004 and July 2005 ²⁰⁴

School of Physiology

Source/ Sponsor/ Partner	Project	Amount	Dates
EPSRC, QinetiQ Ltd and Dstl (Farnborough)	Computational Model and Psychophysical Validation of Perceived Differences between Natural Visual Images	£159,135	Mar 2004 - July 2007 ²⁰⁵
Defence Research Agency (MoD)	Human Visual Parameters of Volumetric Imaging	£13,312	Between Aug 2004 and July 2005 ²⁰⁶

School of Biochemistry

Source/ Sponsor/ Partner	Project	Amount	Dates
Defence Research Agency (MoD)	Development of Molecular Tools for the Analysis of Bacillus	£209	Between Aug 2004 and July 2005 ²⁰⁷

School of Biotechnology

Source/ Sponsor/ Partner	Project	Amount	Dates
Dstl	Synthesis of DNA MIMICSN - Amendment 2 Onwards	£3,556	Between Aug 2004 and July 2005 ²⁰⁸
Dstl	Investigate the Use of Smart Polymers for the Detection of Liquid Chemical Warfare (CW) Agents Couples	£17,515	Between Aug 2004 and July 2005 ²⁰⁹

School of Veterinary Medicine

Source/ Sponsor/ Partner	Project	Amount	Dates
Dstl	Analysis of Humoral and Cell Mediated Immunity in MCE Vaccinated with Francisella Tularensis LVS	£5,432	Between Aug 2004 and July 2005 ²¹⁰

Computer Laboratory (Computer Science)

Source/ Sponsor/ Partner	Project	Amount	Dates
Thales Research and Technology UK Ltd	Studentship: Shared Media Spaces for Remote Collaboration	£7,930	Between Aug 2004 and July 2005 ²¹¹

School of Earth Sciences

Source/ Sponsor/ Partner	Project	Amount	Dates
QinetiQ	Accurate Refraction Modelling in Complex 3D Media	£78	Between Aug 2004 and July 2005 ²¹²

Isaac Newton Institute

Source/ Sponsor/ Partner	Project	Amount	Dates
Office of Naval Research International Field Office	Entanglement and Transfer of Quantum Information Conference	£10,416	Between Aug 2004 and July 2005 ²¹³

School of Public Health and Primary Care

Source/ Sponsor/ Partner	Project	Amount	Dates
QinetiQ	Defence Technology for Health Histopathology Database Management System Demonstrator	£1,184	Between Aug 2004 and July 2005 ²¹⁴

Miscellaneous

Source/ Sponsor/ Partner	Amount	Dates
Atomic Weapons Establishment (9 separate grants)	£219,047	2001 to 2002 ²¹⁵
Atomic Weapons Establishment (15 separate grants)	£210,010	2004 to 2005 ²¹⁶
Atomic Weapons Establishment Plc (9 separate grants)	£220,405	2000 to 2001 ²¹⁷
Atomic Weapons Establishment Plc (14 separate grants)	£190,168	2002 to 2003 ²¹⁸
Atomic Weapons Establishment Plc (16 separate grants)	£204,633	2003 to 2004 ²¹⁹
Atomic Weapons Establishment/ Hunting - BRAE Ltd (2 separate grants)	£44,980	2000 to 2001 ²²⁰
Atomic Weapons Establishment/ Hunting - BRAE Ltd (2 separate grants)	£41,112	2001 to 2002 ²²¹
BAE Systems	£16,874	2001 to 2002 ²²²
BAE Systems (5 separate grants)	£220,494	2002 to 2003 ²²³
BAE Systems (5 separate grants)	£113,452	2003 to 2004 ²²⁴
BAE Systems (6 separate grants)	£152,085	2004 to 2005 ²²⁵
BAE Systems (Land and Sea Systems) Ltd	£35,998	2001 to 2002 ²²⁶
British Aerospace (3 separate grants)	£159,944	2000 to 2001 ²²⁷
British Aerospace (3 separate grants)	£97,722	2001 to 2002 ²²⁸
DARPA (3 separate grants)	£537,079	2004 to 2005 ²²⁹
DARPA (USA)	£7,384	2000 to 2001 ²³⁰
DARPA (USA) (3 separate grants)	£114,437	2001 to 2002 ²³¹
DARPA (USA) (2 separate grants)	£658,294	2002 to 2003 ²³²
DARPA (via Imperial College)	£36,719	2001 to 2002 ²³³
DARPA (via University of Leeds)	£18,282	2001 to 2002 ²³⁴
DARPA via Leeds University	£27,485	2002 to 2003 ²³⁵
Defence Advance Research Projects Agency (3 separate grants)	£725,295	2003 to 2004 ²³⁶

Source/ Sponsor/ Partner	Amount	Dates
Defence Finance and Accounting Service	£22,881	2004 to 2005 ²³⁷
Defence Research Agency (MOD) (42 separate grants)	£1,110,624	2000 to 2001 ²³⁸
Defence Research Agency (MoD) (4 separate grants)	£20,212	2004 to 2005 ²³⁹
Defence Science and Technology Laboratory (8 separate grants)	£422,871	2001 to 2002 ²⁴⁰
Defence Science and Technology Laboratory (15 separate grants)	£201,205	2002 to 2003 ²⁴¹
Defence Science and Technology Laboratory (15 separate grants)	£224,914	2003 to 2004 ²⁴²
Defence Science and Technology Laboratory (14 separate grants)	£219,156	2004 to 2005 ²⁴³
EADS Astrium Limited (2 separate grants)	£49,235	2003 to 2004 ²⁴⁴
EADS Astrium Ltd (3 separate grants)	£39,625	2002 to 2003 ²⁴⁵
EC via Rolls Royce	£9,464	2001 to 2002 ²⁴⁶
European Aeronautic Defence & Space (2 separate grants)	£22,354	2004 to 2005 ²⁴⁷
GKN Westland Helicopters	£2,250	2001 to 2002 ²⁴⁸
GKN Westland Helicopters Ltd	£10,192	2002 to 2003 ²⁴⁹
GKN Westland Helicopters Ltd	£2,558	2003 to 2004 ²⁵⁰
NATO	£6,002	2000 to 2001 ²⁵¹
Office of Naval Research (3 separate grants)	£106,923	2002 to 2003 ²⁵²
Office of Naval Research (4 separate grants)	£264,668	2003 to 2004 ²⁵³
Office of Naval Research (6 separate grants)	£190,335	2004 to 2005 ²⁵⁴
QinetiQ (29 separate grants)	£835,459	2001 to 2002 ²⁵⁵
QinetiQ (36 separate grants)	£722,471	2002 to 2003 ²⁵⁶
QinetiQ (20 separate grants)	£497,716	2003 to 2004 ²⁵⁷
QinetiQ (10 separate grants)	£258,611	2004 to 2005 ²⁵⁸
Rolls Royce Ltd (45 separate grants)	£1,255,641	2001 to 2002 ²⁵⁹
Rolls Royce	£19,545	2002 to 2003 ²⁶⁰
Rolls Royce (69 separate grants)	£1,959,536	2004 to 2005 ²⁶¹
Rolls Royce AB	£12,764	2002 to 2003 ²⁶²
Rolls Royce AB	£27,094	2003 to 2004 ²⁶³
Rolls Royce Industrial and Marine Gas Turbines Ltd (2 separate grants)	£6,300	2003 to 2004 ²⁶⁴
Rolls Royce Limited (2 separate grants)	£13,530	2000 to 2001 ²⁶⁵
Rolls Royce Ltd (38 separate grants)	£982,822	2000 to 2001 ²⁶⁶
Rolls Royce Ltd (50 separate grants)	£1,039,468	2002 to 2003 ²⁶⁷
Rolls Royce Plc (67 separate grants)	£1,235,601	2003 to 2004 ²⁶⁸
Thales Research and Technology	£7,930	2004 to 2005 ²⁶⁹

Source/ Sponsor/ Partner	Amount	Dates
The Boeing Company (4 separate grants)	£47,215	2003 to 2004 ²⁷⁰
U.S. Army (4 separate grants)	£77, 848	2000 to 2001 ²⁷¹
U.S. Army (5 separate grants)	£236,470	2001 to 2002 ²⁷²
U.S. Army (9 separate grants)	£266, 791	2001 to 2002 ²⁷³
U.S. Navy (7 separate grants)	£142,803	2000 to 2001 ²⁷⁴
US Army (5 separate grants)	£244, 749	2002 to 2003 ²⁷⁵
US Army (3 separate grants)	£340,399	2003 to 2004 ²⁷⁶
US Army (4 separate grants)	£53,547	2004 to 2005 ²⁷⁷
US Navy (8 separate grants)	£335, 367	2002 to 2003 ²⁷⁸
US Navy (9 separate grants)	£209,966	2003 to 2004 ²⁷⁹
US Navy (4 separate grants)	£109,578	2004 to 2005 ²⁸⁰
NATO (2 separate grants)	£2,478	2001 - 2002 Financial Year ²⁸¹
Boeing (4 separate grants)	£240,131	2004 – 2005 Financial Year ²⁸²
General Dynamics United Kingdom (2 separate grants)	£185,215	2004 – 2005 Financial Year ²⁸³
General Dynamics United Kingdom Ltd (2 separate grants)	£142,832	2003 – 2004 Financial Year ²⁸⁴

Other projects/ information of note

Cambridge University's FOI response

- Much of the response (that which included full project details i.e. project title/ department) Cambridge University gave to our FOI request, only concerned expenditure that was recorded by the University in a limited timeframe – between 1st August 2004 and 31st July 2005. This is important as it shows that there was a significant amount of information relevant to our report that we did not have access to, which could have increased the total data we were able to present.

Projects sponsored by Government Communications Headquarters (GCHQ)

- We discovered several projects conducted at Cambridge University between 2001 and 2006 which were sponsored by GCHQ. We did not include these projects in our report because it was not clear that they had likely or potential military applications. These projects are available to view on request.

Notation

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

Endnotes

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