

“Working with a range of global leading industry partners such as Rolls-Royce, BAE Systems and Smiths Aerospace, Nottingham’s expertise in this field is truly unrivalled.”¹

- University of Nottingham Website

University of Nottingham 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	£29,133,566	a) 15th = b) 6th	1) EPSRC 2=) Rolls Royce 2=) BAE Systems 3) QinetiQ	1) Mechanical Materials, Manufacturing Engineering and Management 2) Electrical and Electronic Engineering 3) Mathematical Sciences

Institute of Engineering, Surveying & Space Geodesy

Source/ Sponsor/ Partner	Project	Amount	Year
EPSRC and Thales Geosolutions Group Ltd	Characterising GPS Ionospheric Scintillation and Possible Effects for Northern Europe GPS Users	£15,467	Feb 2003 - Oct 2003 ²
EPSRC, BAE Systems Electronics Ltd, EADS ASTRIUM, QinetiQ Ltd and Thales Research Ltd Academic partners include: • CAA Institute of Satellite Navigation at the University of Leeds. • Department of Civil and Environmental Engineering at University College London	Seamless Positioning in All Conditions and Environments - "SPACE"	£157,956	May 2004 - Sept 2007 ³

School of Electrical and Electronic Engineering

Source/ Sponsor/ Partner	Project	Amount	Year
EPSRC and Rolls Royce Plc	Adaptive Laser Ultrasound With Programmable Optical Field Distributions	£201,608	Jul 1999 - Nov 2002 ⁴

Source/ Sponsor/ Partner	Project	Amount	Year
EPSRC, QinetiQ (Malvern) and others	Tapered Structures for Optoelectronics, in collaboration with the George Green Institute	£118,860	Sept 1999 - Feb 2003 ⁵
EPSRC and Rolls-Royce Plc	Particle Shape Measurement Using Fluctuations in Scattered Gaussian Light	£235,531	Mar 2000 - Mar 2003 ⁶
EPSRC, Ministry of Defence and others	Development of Macromodels for Large Scale Electromagnetic Simulation in the Time-Domain	£149,570	Jan 2001 - Jan 2004 ⁷
EPSRC and BAE Systems Plc	Multi-Scale Modelling and Simulation in Electromagnetics, in collaboration with the George Green Institute.	£206,738	Oct 2002 - Oct 2005 ⁸
EPSRC and Rolls Royce Plc	Advanced Ultrasonic Techniques For Highly Scattering Ordered and Semi-Ordered Materials	£176,239	Jan 2005 - Jan 2008 ⁹
EPSRC and Rolls Royce Plc	Cheap Optical Transducers (CHOTs)	£305,913	Mar 2006 - Mar 2009 ¹⁰
EPSRC and Smiths Aerospace University Technology Strategic Partnership Centre* (SA UTSP)	Full Proposal for a Smiths University Strategic Partnership in Advanced Electrical Power and Actuation Systems. In collaboration with Warwick University	£1,369,117	Mar 2006 - Feb 2011 ¹¹
EPSRC, Dstl, QinetiQ (FLC Division) and others	Advanced Ultrasonic NDE of Composite Airframe Components: Physics, Modelling and Technology	£338,866	Aug 2006 - July 2009 ¹²
EPSRC, Smiths Aerospace* and others	Wide Speed Range Sensorless AC Motor Drives, including Operation at Zero-Frequency, without using Test Signals	£333,304	Oct 2006 - Sept 2009 ¹³

School of Mechanical, Materials, Manufacturing Engineering & Management

Source/ Sponsor/ Partner	Project	Amount	Year
Rolls Royce Plc	Rolls Royce Plc University Technology Centre (UTC) in Mechanical Transmission Systems	Initially £1,000,000+ over 5 years	July 1997 onwards ¹⁴
EPSRC, BAE Systems-lfs Ltd, Loughborough University and others	East Midlands Faraday Partnership - Products Comprising Interdependent Mechanical & Electrical Parts-Prime	£51,349	Oct 1997 - Oct 2001 ¹⁵
EPSRC and Rolls Royce Plc	Joint Research Equipment Initiative (JREI): Dynamics of Oil/ Air Mixture & Liquid Films in the HP-IP Bearing Chamber of an Aero-Engine	£64,625	May 1998 - May 2001 ¹⁶
EPSRC and Rolls Royce Plc	Fatigue of Splined Joint Couplings	£152,081	June 1998 - Aug 2001 ¹⁷

Source/ Sponsor/ Partner	Project	Amount	Year
EPSRC, Matra BAE Dynamics (UK) Ltd, British Aerospace Plc, BAE Systems Operations Ltd and others	IMI: Jigless Aerospace Manufacture (JAM)	£582,450	June 1998 - Sept 2001 ¹⁸
EPSRC, Imperial College, London and BAE Systems Sowerby Research Centre	Pilot Study for Active Control of Turbulent Boundary Layers using Micro-Sensors and Actuators	£179,575	July 1998 - Dec 2001 ¹⁹
EPSRC and Rolls Royce Plc	A Miniature Laser Anemometer that Measures Velocity, Particle Size and Concentration In Multi-Phase Flows	£256,362	May 1999 - June 2002 ²⁰
EPSRC, ASTRIUM and others	Thin Film Piezoelectric Actuation for Microengineered Microwave Components: Design & Modelling	£90,131	Sept 2000 - Feb 2003 ²¹
EPSRC and Dowty Propellers (Smiths Aerospace Gloucester Ltd)	The Effects of Manufacturing on the Design & Performance of Textile Composites (MANTEX)	£264,883	Aug 2000 - Sept 2001 ²²
EPSRC, BAE Systems Plc and others	IMI Towards World Class Performance in Planning Scheduling and Control: Progress Chasers to Responsive Teams	£269,402	Sept 2000 - Sept 2001 ²³
Rolls Royce Plc	Rolls Royce Plc University Technology Centre (UTC) in Manufacturing Technology	£300,000 p.a.	Sept 2000 onwards ²⁴
EPSRC, University of Warwick, University of Leeds, Newcastle University, University of Cambridge, GKN Westland Aerospace (IoW), Ministry of Defence, British Aerospace and others	NETWORK: Manufacture and Forming of Thermoplastic Matrix Composites	£62,703	Nov 2000 - Nov 2003 ²⁵
EPSRC, Vosper Thornycroft (UK) Ltd and others	Low Investment Manufacturing of Large Transportation Structures	£309,749	Jan 2001 - Sept 2001 ²⁶
EPSRC, Rolls Royce Plc and others	Adaptive Planning for Machining of Complex Low-Rigidity Components	£309,450	July 2001 - Sept 2001 ²⁷
EPSRC, Dowty Propellers (Smiths Aerospace Gloucester Ltd) and others	Design and Processing of Multi-Layer Structures for Liquid Composite Moulding (Multi-Comp)	£357,998	Oct 2001- April 2005 ²⁸
EPSRC and Vosper Thornycroft (UK) Ltd	Innovative Manufacturing Research Centre	£6,150,001	Oct 2001 - Sept 2006 ²⁹

Source/ Sponsor/ Partner	Project	Amount	Year
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EPSRC, Ministry of Defence and others	Enhancing the Hydrogen Storage Capacity of Carbon Nanofibres	£234,520	Dec 2001 - Nov 2004 ³⁰
EPSRC, QinetiQ Ltd and others	Flightdeck and Air Traffic Control Collaboration Evaluation (FACE)	£267,735	Nov 2002 - Jan 2005 ³¹
EPSRC and Rolls Royce Plc	High Load Capacity Magnetic Bearings	£289,383	Jan 2003 - Dec 2005 ³²
EPSRC, QinetiQ Ltd and others	Design Optimisation of Textile Composite Structures (DotComp)	£224,294	Sept 2003 - Oct 2006 ³³
EPSRC, BAE Systems Advanced Technology Centre and others	Active Control of Turbulent Flow Separation by Surface Plasma	£188,838	Jan 2006 - Dec 2008 ³⁴
EPSRC, Rolls-Royce Plc, Dowty Propellers (Smiths Aerospace Gloucester Ltd*) and others	NSF: Fatigue, Damping and Impact Properties of Textile Composites	£167,863	May 2006 - Apr 2009 ³⁵
EPSRC, Rolls Royce, BAE Systems, GKN and QinetiQ NB Members from Rolls Royce and BAE Systems sit on the NIMRC's Industrial Advisory Board.	Nottingham's Innovative Manufacturing Research Centre NIMRC has collaborative research projects with Warwick, Bath, Cranfield and Loughborough IMRCs	EPSRC funding: £6,150,000 Industrial funding: £3,000,000 EPSRC funding: £9,896,801	2001 - 2006 Oct 2006 - Sept 2011 ³⁶

School of Mathematical Sciences

Source/ Sponsor/ Partner	Project	Amount	Year
EPSRC and QinetiQ (Malvern)	Application of Emission Polarization from Random Surfaces	£170,916	Apr 2002 - Mar 2005 ³⁷
EPSRC, BAE Systems Plc and others	Faraday Fast Track Proposal: Electromagnetic Compatibility in Complex Electrical Systems	£98,696	Sept 2002 - Feb 2005 ³⁸
EPSRC and QinetiQ (Malvern)	Discrete Stochastic Processes in Complex Systems	£209,592	Oct 2005 - Sept 2008 ³⁹

School of Physics and Astronomy

Source/ Sponsor/ Partner	Project	Amount	Year
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Source/ Sponsor/ Partner	Project	Amount	Year
EPSRC, QinetiQ (Malvern) and others	Basic Technology: Nanorobotics - Technologies for Simultaneous Multidimensional Imaging & Manipulation of Nanoobjects	£254,379	Nov 2004 - Oct 2008 ⁴⁰
EPSRC, QinetiQ (Malvern) and others	Supramolecular Self-Assembly of 1- 10nm Templates for Biofunctional Surfaces, Quantum Information Processing and Nanoelectronics	£3,458,241	July 2006 - June 2010 ⁴¹

School of the Built Environment

Source/ Sponsor/ Partner	Project	Amount	Year
EPSRC, BAE Systems Avionics Ltd and others	Boiling and Condensation in Microchannels	£172,281	Nov 2005 - Nov 2008 ⁴²

Innovative Manufacturing Research Centre

Source/ Sponsor/ Partner	Project	Amount	Year
BAE Systems and others	PROCHART: Generic Principles for PSC Systems Design	£?	Current as of Jan 2007 ⁴³

Centre for Geospatial Science

Source/ Sponsor/ Partner	Project	Amount	Year
QinetiQ	Director for Space at QinetiQ appointed Chair in Geospatial Science	£?	Apr 2005 onwards ⁴⁴
QinetiQ Ltd	Offered: PhD Studentship: Integration of Geospatial and Real- Time Positioning Data for Predictive Location Analysis	Full Tuition Fees plus £12,300 to £15,000 p.a. maintenance	Sept 2006 - Sept 2009 (Available until filled) ⁴⁵

The George Green Institute

Source/ Sponsor/ Partner	Project	Amount	Year
NATO and others	Postdoctoral Fellowship: Investigation of Electromagnetic Field in a System of Transparent Cylinders with Time-Varying Media	£?	Aug 2004 - July 2005 ⁴⁶
EPSRC and BAE Systems	Integrated Programme of Research in Aeronautical Engineering	£200,000	Sept 2004 - Sept 2007 ⁴⁷

Notation

* In May 2007 Smiths Group completed the sale of its aerospace business, containing the bulk of

its military-related production, to General Electric.
£? Denotes projects whose value we were unable to discover.

Endnotes

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