

“Projects are often in collaboration with the programme's industrial advisers, which include...BAE Systems and Dstl.”¹

- Newcastle University website

Newcastle 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)
55	£9,129,147	a) 14th b) 13th	1) EPSRC 2) BAE Systems 3) QinetiQ	1) Marine Science Technology 2) Electrical, Electronic and Computer Engineering 3=) Computer Science 3=) Engineering Design Centre

School of Marine Science and Technology

Source/ Sponsor/ Partner	Project	Amount	Year
BAE Systems, Rolls Royce and European Union GROWTH Programme	VR Ships – ROPAX 2000. Partners include: <ul style="list-style-type: none"> University of Strathclyde, Design and Manufacture and Engineering Management, CAD [Computer Aided Design] Centre and Department of Naval Architecture and Marine Engineering BAE Systems (Operations) Ltd British Maritime Technology Ltd Napier University and Rolls Royce Hydrodynamic Research Centre 	£?	Aug 2000 - July 2005 ²
BAE Systems	Survivability, Durability and Performance of Composite Structures	£141,560	Jan 2001 ³
Project Partners include: <ul style="list-style-type: none"> BAE Systems Marines Ltd University of Glasgow and University of Strathclyde's Ship Stability Research Centre within Department of 	Fast Ships Applications For Pod drives (FASTPOD)	4,000,000 Department share: €604,000 (approx £410,000)	2002 - 2005 ⁴

Source/ Sponsor/ Partner	Project	Amount	Year
Naval Architecture and Marine Engineering			
Ministry of Defence	Study into High Speed Propulsion Enabling Technology	£85,000	Jan 2003 - Apr 2004 ⁵
Ministry of Defence	Motion Control of Triton Trimaran	£45,000	Sept 2003 - Jan 2004 ⁶
QinetiQ	Marine Structure Analysis	£30,497	June 2004 ⁷
Supported through an EPSRC Collaborative Training Account. "Links in with the Rolls Royce Early Engineering Professional Development Scheme, delivered by Rolls Royce Plc."	Msc Marine Technology. Masters training Package in Marine Technology in collaboration with Rolls Royce. Part of the Marine Technology Education Consortium, a collaboration between: <ul style="list-style-type: none"> • University of Glasgow • Heriot-Watt University • University of Strathclyde • University of Southampton • University of Newcastle and • University College London 	£?	Current as of Sept 2005 ⁸
Programme Supported through a EPSRC Collaborative Training Account. Past Industrial Partners include: <ul style="list-style-type: none"> • British Aerospace SEMA 	MRes (Masters in Research) in Marine Technology in the Marine Environment	£?	Current as of Sept 2005 ⁹
RINA and BAE	Student of the Year, Naval Architect Award for Best Project Presentation	£250	2005/ 2006 ¹⁰
EPSRC, BAE Systems and others	Predicting and Managing Weld Induced Distortion of Thin-Walled Steel Structures	£223,569	Mar 2006 - Nov 2009 ¹¹
Royal Navy	Bursaries for Young Officers on Naval Architecture Marine Engineering Degrees	£?	Current as of August 2006 ¹²

School of Natural Sciences

Source/ Sponsor/ Partner	Project	Amount	Year
BAE Systems	DNA-Modified Surfaces	£208,423	Aug 2002 ¹³

School of Clinical Medical Sciences

Source/ Sponsor/ Partner	Project	Amount	Year
Dstl	Targeting of a Candidate Plague	£?	Current as of

Source/ Sponsor/ Partner	Project	Amount	Year
	Vaccine Antigen for Delivery to Induce an Optimum Immune Response. Extramural Research Contract		Jan 2006 ¹⁴

School of Electrical, Electronic and Computer Engineering

Source/ Sponsor/ Partner	Project	Amount	Year
EPSRC, DERA - Malvern, British Aerospace (Sowerby Research Centre) and others	Inertial Sensors	£?	Feb 1999 - Feb 2001 ¹⁵
EPSRC, Dstl Air Systems (Bedford), BAE Systems Plc and others	Optical Testing of Integrated Microelectromechanical Systems (IMEMS) for Production	£261,610	Feb 1999 - Oct 2002 ¹⁶
Defence Research Agency (DRA)	Component Analysis	£?	Oct 2000 - Sept 2002 ¹⁷
QinetiQ	Statistical Blind Source Separation	£?	Oct 2001 - Oct 2003 ¹⁸
EPSRC, Rolls Royce Plc and others	Engineering Doctorate Centre: Power Electronics, Drives and Machines	£367,154	Oct 2001 - Dec 2003 ¹⁹
EPSRC, Rolls Royce Plc, QinetiQ (Malvern) and others	Advancing Silicon Carbide Electronics Technology (ASCENT)	£715,384	Sept 2003 - May 2007 ²⁰
EPSRC, Rolls Royce Plc and others	Power Electronics, Drives and Machines	£430,178	Oct to Dec 2003 ²¹
EPSRC Project Partners: • Ministry of Defence and • University of Lancaster Communications Department	Space-Time Diversity Coding Combined with Equalisation for MIMO Wireless Channels.	£200,000 (£64,379 from EPSRC)	Sept 2004 - Aug 2005 ²²
EPSRC, QinetiQ (Malvern) and others	Integration of Microelectromechanical Systems (MEMS) with Electronics in Silicon Carbide for Harsh Environments	£295,677	Jan 2005 - Jan 2008 ²³
EPSRC and MBDA UK Ltd	Next Generation of Interconnection Technology for Multiprocessor SoC	£293,570	Aug 2005 - July 2008 ²⁴

School of Mechanics, Materials and Manufacturing Engineering

Source/ Sponsor/ Partner	Project	Amount	Year
EPSRC and Dstl Air Systems (Bedford)	Multi-Axis Gyroscopes	£218,113	April 1999 - Mar 2002 ²⁵
GKN, Westland and others	Mechanical and Materials Engineering (MEng Honors) Modules developed in consultation with Industrial Companies	£?	Current as of 2004 ²⁶
UK Army	Sponsorship for Formula Student Competition, to build a Formula One Car for Mechanical Engineering Students	£?	April 2005 ²⁷

School of Computing Science*

Source/ Sponsor/ Partner	Project	Amount	Year
BAE Systems as part of Defence Aerospace Research Partnership on High Integrity Real-Time Systems, established Oct 2002. Other partners of DARP include: <ul style="list-style-type: none"> Rolls Royce Plc and QinetiQ 	British Aerospace Dependable Computing Systems Centre (DCSC), within the Centre for Software Reliability. Work concentrating on the Accurate Representation, Analysis and Tracing of System Requirements. Involves University of York	£?	Feb 1991 - Dec 2007 ²⁸
EPSRC and Matra BAE Systems. Project Partner: <ul style="list-style-type: none"> King's College London's Department of Electrical Engineering 	Asynchronous Communication Mechanisms For Real-Time Systems (COMFORT)	£162,952	May 1998 - Nov 2001 ²⁹
QinetiQ, DERA, Malvern, European Union Framework V and European Community, Information Society Technology Programme	Dependable "System of Systems" (DSoS), within Dependability Research Group and Software Reliability Research Centre	£?	April 2000 - Mar 2003 ³⁰
EPSRC and Dstl	Interdisciplinary Research Collaboration in Dependability of Computer-Based Systems (DIRC) as part of the IRC. Involves: <ul style="list-style-type: none"> University of York University of Edinburgh and City University 	EPSRC £7,331,719 Dstl £270,000	July 2000 - Mar 2007 ³¹
Project Partners include: <ul style="list-style-type: none"> Matra BAe Dynamics (UK) 	Exploiting Formality Within an Architectural Design Method,	£?	Jan 2001 ³²

Source/ Sponsor/ Partner	Project	Amount	Year
Ltd, Filton, Bristol.	within the Centre for Software Reliability.		
QinetiQ	Web Service Study	£43,000	Oct 2003 ³³
Involves: • QinetiQ and others	Malicious and Accidental Fault Tolerance In Internet Applications (MAFTIA)	£?	Current as of Jan 2004 ³⁴
European Union, Information Society Technologies Programme. Industrial Interest Group Participants include: • AWE Aldermaston, UK and • QinetiQ, UK Associate Group Members include: • University of York Other participants include: • VT Engine Controls Ltd, UK and • University of Southampton	Rigorous Open Development Environment for Complex Systems (RODIN)	Total cost: _4,397,850 EC contribution _3,171,000 (approx. £2,100,000)	Sept 2004 - Aug 2007 ³⁵
BAE Systems	Alert Propagation	£20,000	April 2005 ³⁶

School of Chemical Engineering and Advanced Materials

Source/ Sponsor/ Partner	Project	Amount	Year
Defence Science Technology Laboratory	Fuel Cell Development (5 separate grants)	£488,114	June 2002 - Jan 2005 ³⁷
EPSRC, Rolls Royce Plc and others	Fuel Cells - Powering a Greener Future	£2,082,524	Sept 2005 - Aug 2009 ³⁸

School of Neurology, Neurobiology and Psychiatry

Source/ Sponsor/ Partner	Project	Amount	Year
Defence Science Technology Laboratory	Gulf War Syndrome	£60,235	Dec 2002 ³⁹

Institute for Nanoscale Science and Technology

Source/ Sponsor/ Partner	Project	Amount	Year
QinetiQ	Microfabricated Substrates	£9,489	Mar 2004 ⁴⁰

Engineering Design Centre - EDC

Source/ Sponsor/ Partner	Project	Amount	Year
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Source/ Sponsor/ Partner	Project	Amount	Year
BAE Systems and DERA	European Co-Operative for the Long Term in Defence [EUCLID]: Survivability, Durability and Performance of Naval Composite Structures	£?	Recent as of April 2007 ⁴¹
Rolls Royce and others	The Time Dimension and Through Life Costs in the Design, Manufacture and Operation of Large MTO [Made-to-Order] Products	£?	Recent as of April 2007 ⁴²
Rolls Royce and others	The Role of Design in the Business Process of New MTO [Made-to-Order] Products	£?	Recent as of April 2007 ⁴³
BAE Systems and others	Increasing Robustness and Decreasing Risk Throughout the Design Process	£?	Recent as of April 2007 ⁴⁴
Rolls Royce Industrial Controls and BAE Systems	Generic Specification for Engineering Systems	£?	Recent as of April 2007 ⁴⁵
BAE Systems	The Use and Re-Use of Emerging Design Knowledge in the Assessment of Design Margins	£?	Recent as of April 2007 ⁴⁶
Rolls Royce	Optimisation of Steam Turbine Design	£?	Recent as of April 2007 ⁴⁷
BAE Systems	Integrated Modelling Environment (IME)	£?	Current as of April 2007 ⁴⁸
Thales UK Plc	MSc in Major Project Management and Associated Research Network. Project Partners: <ul style="list-style-type: none"> • University of Durham and • University of Warwick 	£?	Current as of April 2007 ⁴⁹

School of Mechanical and Systems Engineering

Source/ Sponsor/ Partner	Project	Amount	Year
EPSRC and Vosper Thorneycroft	Fire Resistance of Loaded Composite Structures	£267,363	2002 - 2004 ⁵⁰
EPSRC and QinetiQ (Malvern)	The Application of Parametric Excitation as a Drive Mechanism for a Vibrating Ring Gyroscope	£123,536	Sept 2004 - Sept 2007 ⁵¹
EPSRC, QinetiQ (Malvern) and others	Development of a "Dynamic Micro Analysis Raman Spectroscopy" (DyMARS) System for Characterisation of	£114,992	Aug 2005 - Jan 2008 ⁵²

Source/ Sponsor/ Partner	Project	Amount	Year
	MEMs and NEMs		

School of Civil Engineering and Geosciences

Source/ Sponsor/ Partner	Project	Amount	Year
EPSRC, QinetiQ and others	EPITOMIZ: Elasto-Plastic Geometrically Nonlinear Structural Optimization	£136,615	Sept 2000 - Mar 2004 ⁵³
EPSRC and BAE Systems Avionics Group	CREDO - Composites Reliability from Engineering Design Optimization I. Stochastic Analysis	£223,179	May 2006 - May 2009 ⁵⁴
EPSRC, Boeing, Thales Research Ltd and others	Pervasive Mobile Environmental Sensor Grids	£861,163	Oct 2006 - Sept 2009 ⁵⁵

Miscellaneous/ Cross Department

Source/ Sponsor/ Partner	Project	Amount	Year
EPSRC (received via King's College London) and MBDA (joint funded project)	Computational Heterogeneously Timed Networks, COHERENT. Collaborative Project between Departments of Computing Science and School of Electrical and Electronic Engineering at Newcastle, and Department of Electronic Engineering at KCL. Industrial Links with Matra BAE Systems. Matra BAE Dynamics (UK) Ltd.	Total Funding approx. £340,000, including £244,104 via EPSRC	July 2001 - Nov 2004 ⁵⁶

Other Projects/ Information of Note

Project starting 2007, School of Electrical, Electronic and Computer Engineering			
Source/Sponsor/Partner	Project	Amount	Year
EPSRC, QinetiQ Ltd, Rolls Royce Plc and others	Eddy Current Sensor Arrays for Stress and Damage Mapping	£285,822	Mar 2007 - Feb 2010 ⁵⁷

Projects ending 2000 and 1998, Department of Computer Science			
Source/Sponsor/Partner	Project	Amount	Year
EPSRC and BAE	Traceability for Dependable Avionic Systems	£?	March 2000 ⁵⁸
EPSRC CASE Award,	Hollingwood	£?	Sept 1998

British Aerospace Ltd			59
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Development Council
<ul style="list-style-type: none"> “Two years ago, the University set up a Development Council, bringing together alumni and friends of the University with experience of business, under the chairmanship of Sir Terence Harrison, the former Chief Executive of Rolls Royce.”⁶⁰
Computer Science*
<ul style="list-style-type: none"> The University of Newcastle’s Computer Science Department is part of BAE System’s Systems Integration Consortium with the Universities of York and Loughborough. Established in 1999, the consortium is part of the Network of Excellence in Distributed and Dependable Computing Systems.⁶¹

Notation

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

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