

*“Critical aspects of the UK's defences are to be strengthened through a six-year research partnership led by General Dynamics UK and involving several leading companies and universities, including the University of Bristol. The Ministry of Defence is on the partnership board and is contributing about half the cost. The first three years' programme, costing some £27 million, is already under way.”<sup>1</sup>*

- University of Bristol Website

## University of Bristol's 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)
101	£12,109,941	a) 6th  b) 11th	1) QinetiQ  2) EPSRC  3) Dstl	1) Aerospace Engineering  2) Mechanical Engineering  3) Electrical and Electronic Engineering

### Aerospace Engineering

Source/ Sponsor/ Partner	Project	Amount	Date
EPSRC and GKN Westland Aerospace (IoW)	Platform Grant for Aerospace Composite Structures	£433,362	Apr 2000 - Mar 2004 <sup>2</sup>
EPSRC and Westland Helicopters Ltd	Modelling Lay-Up Effects of Hollow Composite Closed Sections Subject to Multiple Loads	£62,191	Jul 2000 - Jan 2002 <sup>3</sup>
QinetiQ Ltd	Development of Geometry During Cure	£119,925	Mar 2002 Onwards <sup>4</sup>
EPSRC and Westland Helicopters Ltd	Fatigue Life Prediction for Fibre Reinforced Plastics Under Complex Loading	£65,579	Mar 2002 - Aug 2005 <sup>5</sup>
QinetiQ	Aerodynamics Data Extraction from 5-DOF Wind Tunnel Rig	£27,056	Aug 2002 Onwards <sup>6</sup>
EPSRC, BAE Systems Operations Ltd and QinetiQ Ltd	Unsteady Aerodynamics Simulation by Flight Control System Intergration with Structure-Coupled CFD	£148,562	Oct 2002 - May 2006 <sup>7</sup>
EPSRC, BAE Systems Plc and others	Scaling Effects in Notched Composites	£194,717	Mar 2003 - Sep 2006 <sup>8</sup>
Department of Trade and	PUMA DARP: Unsteady	£242,187	Apr 2003

Industry LINK	Aerodynamics Prediction and Simulation for Airframe and Turbomachinery Applications		Onwards <sup>9</sup>
Defence Science Technology Laboratory	Novel Flow Devices	£7,500	Sept 2003 Onwards <sup>10</sup>
Rolls Royce Plc	Composite Methods Development	£58,252	Jan 2004 Onwards <sup>11</sup>
QinetiQ Ltd	FE Correlation Updating of the Lynx XZ649 Airframe	£103,299	Jan 2004 Onwards <sup>12</sup>
EPSRC and Westland Helicopters Ltd	DARP: Towards Robust and Cost Effective Approaches to Rotorcraft Design	£228,113	Jan 2004 - Sep 2008 <sup>13</sup>
QinetiQ Ltd	Quantitative Assessment of Pendulum Support Rig	£100,157	Sept 2004 Onwards <sup>14</sup>
Defence Science Technology Laboratory	Wind Tunnel Testing in Support of NATA RTO AVT-102 Task Group	£19,620	Sept 2004 Onwards <sup>15</sup>
EPSRC and Westland Helicopters Ltd	Safety-Based Optimal Design in Structural Dynamics	£29,262	Oct 2004 - Sep 2007 <sup>16</sup>
EPSRC, University of Bristol, Oxford University and Smiths Group	Smiths Aerospace University Technology Strategic Partnership (UTSP)	Total initial Investment of £1,250,000	2005 <sup>17</sup>
Defence Science Technology Laboratory	Undertake and Report on an Evaluation of Aerodynamic Modelling Tools Applicable toUCAVS	£5,000	Feb 2005 Onwards <sup>18</sup>
EPSRC, Smiths Group*, Oxford University and others	Smiths Aerospace Research and Technology Partnership on Composites and Metallics (SmartComp). 4 researchers will be appointed; 3 at Bristol and, in addition, one senior Research Fellow and 7 PhD studentships not funded under this grant have been committed to the Partnership. Also includes secondment of staff between the universities and Smiths and regular joint seminars	£1,095,146	Jan 2006 - Dec 2010 <sup>19</sup>

### **Computer Science**

<b>Source/ Sponsor/ Partner</b>	<b>Project</b>	<b>Amount</b>	<b>Date</b>
EPSRC and BAE Systems Plc	REVERB - Reverse Engineering the Vertebrate Brain. Involves: <ul style="list-style-type: none"> <li>University of Sheffield,</li> <li>University of Manchester,</li> <li>University of Bristol,</li> </ul>	£?  NB Project has included a £1,893,234	Apr 2005 - Apr 2010 <sup>20</sup>

	<ul style="list-style-type: none"> <li>University of Cambridge,</li> <li>University of Wales, Aberystwyth,</li> <li>Oxford University, and</li> <li>University of Dundee</li> </ul>	award to the University of Sheffield's Adaptive Behaviour Research Group within its Psychology Department	
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## **Chemistry**

<b>Source/ Sponsor/ Partner</b>	<b>Project</b>	<b>Amount</b>	<b>Date</b>
QinetiQ Ltd	The Dielectric Response of Stable Coni Particles	£49,660	Apr 2001 <sup>21</sup>
EPSRC, Smiths Industries and others	AEROFED: An Evaluation of a Research Opportunity to Realise a Low Voltage, Field Emission Display for use as a Multi-Functional Avionic Flat Panel. Under LINK Scheme	£159,083	Sep 2001 - Aug 2004 <sup>22</sup>
Ministry of Defence	Ventilation of Pollution out of Urban Streets	£90,612	Oct 2001 <sup>23</sup>

## **Electrical and Electronic Engineering**

<b>Source/ Sponsor/ Partner</b>	<b>Project</b>	<b>Amount</b>	<b>Date</b>
QinetiQ Ltd	Space Time Coding for Broadband Wireless Access	£139,440	Dec 2001 <sup>24</sup>
QinetiQ Ltd	Signal Recovery in Interference Ltd Communication Systems	£179,949	Jan 2003 <sup>25</sup>
QinetiQ Ltd	A Single Photon Source Characterisation Facility and Novel Single Photon Sources	£75,950	Oct 2003 <sup>26</sup>
Defence Science Technology Laboratory	Propagation Modelling: Review and Recommendations	£20,000	Jan 2004 <sup>27</sup>
QinetiQ Ltd	Compact Drive Technologies of a Hybrid-Electric Tracked Vehicle	£32,000	Sept 2004 <sup>28</sup>
Defence Science Technology Laboratory	Short Range Urban Propagation Project	£39,500	Feb 2005 <sup>29</sup>
QinetiQ Ltd	Ex-Drive	£178,000	Dec 2005 <sup>30</sup>

## **Mathematics**

<b>Source/ Sponsor/ Partner</b>	<b>Project</b>	<b>Amount</b>	<b>Date</b>
QinetiQ Ltd	Vector Valued Locally Stationary Wavelet Processes	£117,000	Jan 2001 <sup>31</sup>
QinetiQ Ltd	Calculation on Narrowband	£10,238	Mar 2001 <sup>32</sup>

	Wavefields		
QinetiQ Ltd	Mathematical Research in Chaos Theory at Bristol University for Determining Radar Cross Section Characteristics of Chaotic Engine Ducts	£212,952	Apr 2001 <sup>33</sup>
GKN Westland Helicopters	Towards Robust and Cost Effective Approaches to Rotorcraft Design: DARP	£136,400	Nov 2004 <sup>34</sup>
EPSRC, BAE Systems (Strategic Partnership) and others	Autonomous Learning Agents for Decentralised Data and Information Networks (ALADDIN).  Involves: <ul style="list-style-type: none"> <li>• Imperial College London</li> <li>• University of Southampton</li> <li>• University of Bristol</li> <li>• Oxford University</li> </ul> <p>Under scheme University of Southampton received £5,469,161 for Decentralised Data and Information Systems Research</p>	£?	2005 - 2010 <sup>35</sup>

### **Mechanical Engineering**

<b>Source/ Sponsor/ Partner</b>	<b>Project</b>	<b>Amount</b>	<b>Date</b>
EPSRC, Rolls-Royce Plc and others	The Ultrasonic Detectability and Sizing of Rough, Partially Closed Cracks in Real Structures	£214,115	Jan 2003 - Sep 2006 <sup>36</sup>
Rolls-Royce Plc	Acoustic Emission for the Localisation of Damaged Regions in Structures as part of the NDE Process	£24,000	Mar 2004 Onwards <sup>37</sup>
EPSRC, Rolls-Royce Plc and others	Acoustic Emission for the Localisation of Damaged Regions in Structures as Part of the NDE Process	£165,033	Sep 2004 - Aug 2007 <sup>38</sup>
Ministry of Defence	Innovative Valve Study	£35,000	Jan 2005 Onwards <sup>39</sup>
EPSRC, Rolls-Royce Plc, QinetiQ Ltd and others	Reliable Measurement of Residual Stress in Large Engineering Components	£186,501	Jan 2005 - Dec 2007 <sup>40</sup>
Rolls-Royce Plc	Flexible Arrays	£23,000	Aug 2005

			Onwards <sup>41</sup>
Ministry of Defence	Multiscale Approaches to Enhance Materials Performance	£487,674	Oct 2005 Onwards <sup>42</sup>
EPSRC, BAE Systems Advanced Technology Centre and others	Efficient Structural Health Monitoring Using Sparse Distributed Sensor Arrays	£206,026	Jan 2006 - Dec 2008 <sup>43</sup>
Ministry of Defence	Shock Tolerant Actuator Mounting	£24,779	Feb 2006 Onwards <sup>44</sup>
EPSRC, QinetiQ Ltd and others	Kissing Bonds in Adhesive Joints: a Holistic Approach for Nonlinear Ultrasonic Detection, Joint Mechanics and Surface Chemistry	£114,037	Oct 2006 - Sep 2009 <sup>45</sup>
EPSRC, Westland Helicopters Ltd and others	The Adaptive Control of Generalised Dynamically Substructured Systems	£492,949	Nov 2006 - Oct 2009 <sup>46</sup>

### **Experimental Psychology**

<b>Source/ Sponsor/ Partner</b>	<b>Project</b>	<b>Amount</b>	<b>Date</b>
QinetiQ Ltd	Cognitive Workload Assessment – Support to DARPA	£134,102	Jan 2002 Onwards <sup>47</sup>
QinetiQ Ltd	Measurement and Analysis of EEG Activity and Behavioural Data Collected in Response to a Dual Task Procedure	£32,958	Mar 2002 Onwards <sup>48</sup>
QinetiQ Ltd	Work Associated with DARPA	£5,181	Apr 2002 Onwards <sup>49</sup>
EPSRC, QinetiQ Ltd and Dstl (Farnborough)	Computational Model & Psychophysical Validation of Perceived Differences between Natural Visual Images	£147,083	Mar 2004 - Feb 2007 <sup>50</sup>
GKN Westland Helicopters	Wireless Intelligent Sensing Devices for Health Monitoring	£419,911	Apr 2005 Onwards <sup>51</sup>

### **Clinical Science at South Bristol**

<b>Source/ Sponsor/ Partner</b>	<b>Project</b>	<b>Amount</b>	<b>Date</b>
QinetiQ Ltd	Studies of the Behavioural Effects of Fear - Performance Measures	£35,392	Sept 2001 Onwards <sup>52</sup>
QinetiQ Ltd	Studies on the Behavioural Effects of Fear	£25,059	Jan 2003 Onwards <sup>53</sup>

### **University Fundraising Arm**

<b>Source/ Sponsor/ Partner</b>	<b>Project</b>	<b>Amount</b>	<b>Date</b>
Smiths Group Plc	Chair in Anaesthesia - donated	£125,000	Since 2001

through Bristol's fundraising arm

Onwards <sup>54</sup>

### **School for Policy Studies**

<b>Source/ Sponsor/ Partner</b>	<b>Project</b>	<b>Amount</b>	<b>Date</b>
Ministry of Defence	MoD Postgraduate Research Fellowship	£32,620	Feb 2001 Onwards <sup>55</sup>

### **Interface Analysis Centre**

<b>Source/ Sponsor/ Partner</b>	<b>Project</b>	<b>Amount</b>	<b>Date</b>
Ministry of Defence	Environmental Remediation of Heavy Metals and Radionuclides	£171,659	Feb 2006 Onwards <sup>56</sup>

### **Governance Research Centre**

<b>Source/ Sponsor/ Partner</b>	<b>Project</b>	<b>Amount</b>	<b>Date</b>
Ministry of Defence	Potential Generic Adversaries Report	£39,110	Dec 2002 Onwards <sup>57</sup>

### **Division of Farm Animal Science**

<b>Source/ Sponsor/ Partner</b>	<b>Project</b>	<b>Amount</b>	<b>Date</b>
Defence Science Technology Laboratory	Canine Olfaction Programme	£14,339	Jun 2003 Onwards <sup>58</sup>
Defence Science Technology Laboratory	Research into the Tracking and Trailing of Dogs	£35,110	Oct 2003 Onwards <sup>59</sup>
Defence Science Technology Laboratory	Enhanced Canine Handler Selection	£142,690	Jan 2004 Onwards <sup>60</sup>
Defence Science Technology Laboratory	Research on Detection Dog Selection Procedures	£8,598	Feb 2004 Onwards <sup>61</sup>
Defence Science Technology Laboratory	Dog Husbandry and Housing	£89,650	Apr 2004 Onwards <sup>62</sup>
Defence Science Technology Laboratory	Extension - Enhanced Canine Handler Selection	£21,865	Oct 2005 Onwards <sup>63</sup>

### **Community Based Medicine**

<b>Source/ Sponsor/ Partner</b>	<b>Project</b>	<b>Amount</b>	<b>Date</b>
Defence Science Technology Laboratory	Analysis of Sleep Recordings	£15,000	Jul 2003 <sup>64</sup>

## Geographical Sciences

Source/ Sponsor/ Partner	Project	Amount	Date
Defence Evaluation & Research Agency	Assessments of Gaung: A Satellite/ GIS Based Surface Saturation Retrieval Methodology	£14,999	Jan 2001 <sup>65</sup>

## Miscellaneous

Source/ Sponsor/ Partner	Project	Amount	Date
BAE Systems	?	£40,853	FY 2000/ 2001 <sup>66</sup>
BAE Systems	?	£0	FY 2001 to 2005 <sup>67</sup>
Boeing	?	£0	FY 2000 to 2005 <sup>68</sup>
Cobham Plc	?	£0	FY 2000 to 2005 <sup>69</sup>
European Aeronautical Defence & Space Company	?	£0	FY 2000 to 2005 <sup>70</sup>
Finmeccanica	?	£0	FY 2000 to 2005 <sup>71</sup>
GKN Plc	?	£38,681	FY 2000/ 2001 <sup>72</sup>
GKN Plc	?	£36,966	FY 2001/ 2002 <sup>73</sup>
GKN Plc	?	£0	FY 2002 to 2004 <sup>74</sup>
GKN Plc	?	£41,297	FY 2004/ 2005 <sup>75</sup>
QinetiQ	?	£0	FY 2000/ 2001 <sup>76</sup>
QinetiQ	?	£325,676	FY 2001/ 2002 <sup>77</sup>
QinetiQ	?	£380,308	FY 2002/ 2003 <sup>78</sup>
QinetiQ	?	£366,872	FY 2003/ 2004 <sup>79</sup>
QinetiQ	?	£425,998	FY 2004/ 2005 <sup>80</sup>
Rolls-Royce	?	£11,750	FY 2000/ 2001 <sup>81</sup>
Rolls-Royce	?	£0	FY 2001 to 2004 <sup>82</sup>
Rolls-Royce	?	£95,471	FY 2004/ 2005 <sup>83</sup>
Smiths Group Plc	?	£0	FY 2000 to

			2005 <sup>84</sup>
Thales Group	?	£0	FY 2000 to 2005 <sup>85</sup>
VT Group	?	£0	FY 2000 to 2005 <sup>86</sup>
Ministry of Defence	?	£7,294	FY 2000/ 2001 <sup>87</sup>
Ministry of Defence	?	£39,535	FY 2001/ 2002 <sup>88</sup>
Ministry of Defence	?	£17,248	FY 2002/ 2003 <sup>89</sup>
Ministry of Defence	?	£0	FY 2003 to 2005 <sup>90</sup>
Defence Science Technology Laboratory	?	£0	FY 2000 to 2002 <sup>91</sup>
Defence Science Technology Laboratory	?	£9,320	FY 2002/ 2003 <sup>92</sup>
Defence Science Technology Laboratory	?	£138,142	FY 2003 to 2004 <sup>93</sup>
Defence Science Technology Laboratory	?	£127,915	FY 2004 to 2005 <sup>94</sup>
Defence Evaluation & Research Agency	?	£486,388	FY 2000/ 2001 <sup>95</sup>
Defence Evaluation & Research Agency	?	£189,023	FY 2001/ 2002 <sup>96</sup>
Defence Evaluation & Research Agency	?	-£47,250 <sup>^</sup>	FY 2002/ 2003 <sup>97</sup>
Defence Evaluation & Research Agency	?	£0	FY 2003 to 2005 <sup>98</sup>
Defence Bills Agency	?	£0	FY 2000 to 2002 <sup>99</sup>
Defence Bills Agency	?	£79,932	FY 2002/ 2003 <sup>100</sup>
Defence Bills Agency	?	£95,995	FY 2003/ 2004 <sup>101</sup>
Defence Bills Agency	?	£41,125	FY 2004/ 2005 <sup>102</sup>

## **Notation**

\* In May 2007 Smiths Group completed the sale of its aerospace business, containing the bulk of its military-related production, to General Electric.

<sup>^</sup> Projects with '-£' showed this notation in the original data source. They have not been included in the monetary total for the university.

? Denotes projects whose value we were unable to discover.

FY Financial year

## **Endnotes**

<sup>1</sup> "Defence consortium announced". [University of Bristol](http://www.bristol.ac.uk/news/2003/322). <http://www.bristol.ac.uk/news/2003/322>. 30 April 2007.

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<http://gow.epsrc.ac.uk/ViewGrant.aspx?GrantRef=GR/N07738/01>. 27 January 2007.
- <sup>3</sup> “Details of Grant”, [Engineering and Physical Science Research Council](http://gow.epsrc.ac.uk/ViewGrant.aspx?GrantRef=GR/N20898/01).  
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- <sup>4</sup> Elizabeth Gabbett. Acting Information Rights Manager, University of Bristol. 11 May 2006. Sent to Fellowship of Reconciliation.
- <sup>5</sup> “Details of Grant”. [Engineering and Physical Science Research Council](http://gow.epsrc.ac.uk/ViewGrant.aspx?GrantRef=GR/R47998/01).  
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- <sup>6</sup> Elizabeth Gabbett. Acting Information Rights Manager, University of Bristol. 11 May 2006. Sent to Fellowship of Reconciliation.
- <sup>7</sup> “Details of Grant”. [Engineering and Physical Science Research Council](http://gow.epsrc.ac.uk/ViewGrant.aspx?GrantRef=GR/R89028/01).  
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- <sup>8</sup> “Details of Grant”. [Engineering and Physical Science Research Council](http://gow.epsrc.ac.uk/ViewGrant.aspx?GrantRef=GR/R89462/01).  
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- <sup>10</sup> Elizabeth Gabbett. Acting Information Rights Manager, University of Bristol. 11 May 2006. Sent to Fellowship of Reconciliation.
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- <sup>12</sup> Elizabeth Gabbett. Acting Information Rights Manager, University of Bristol. 11 May 2006. Sent to Fellowship of Reconciliation.
- <sup>13</sup> “Details of Grant”. [Engineering and Physical Science Research Council](http://gow.epsrc.ac.uk/ViewGrant.aspx?GrantRef=GR/S61294/01).  
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- <sup>15</sup> Elizabeth Gabbett. Acting Information Rights Manager, University of Bristol. 11 May 2006. Sent to Fellowship of Reconciliation.
- <sup>16</sup> “Details of Grant”. [Engineering and Physical Science Research Council](http://gow.epsrc.ac.uk/ViewGrant.aspx?GrantRef=GR/T03376/01).  
<http://gow.epsrc.ac.uk/ViewGrant.aspx?GrantRef=GR/T03376/01>. 27 January 2007.
- <sup>17</sup> “Press Release: Strategic partnership between Smiths, Oxford and Bristol University”. [Smart Composites](http://users.ox.ac.uk/~pgrant/Smartcomp.html).  
<http://users.ox.ac.uk/~pgrant/Smartcomp.html>. 27 January 2007.
- <sup>18</sup> Elizabeth Gabbett. Acting Information Rights Manager, University of Bristol. 11 May 2006. Sent to Fellowship of Reconciliation.
- <sup>19</sup> “Details of Grant”. [Engineering and Physical Science Research Council](http://gow.epsrc.ac.uk/ViewGrant.aspx?GrantRef=EP/D03423X/1).  
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<http://users.ox.ac.uk/~pgrant/Smartcomp.html>. 27 January 2007.
- <sup>20</sup> “Multi-disciplinary, multi-centre project involving Sheffield, Manchester, Bristol, Cambridge, Aberystwyth, Oxford, Dundee and BAE Systems PLC”. [Adaptive Behaviour Research Group, Sheffield University](http://www.adaptivebehaviour.com).

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<sup>22</sup> "Details of Grant". [Engineering and Physical Science Research Council](http://gow.epsrc.ac.uk/ViewGrant.aspx?GrantRef=GR/R40333/01). <http://gow.epsrc.ac.uk/ViewGrant.aspx?GrantRef=GR/R40333/01>. 27 January 2007.

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<sup>35</sup> "Multi-disciplinary, multi-centre project involving Southampton, Imperial, Oxford, Bristol and BAE Systems PLC". [Autonomous Learning Agents for Decentralised Data and Information Networks \(ALADDIN\)](http://www.aladdinproject.org/). <http://www.aladdinproject.org/>. 27 January 2007. And; "Details of Grant". [Engineering and Physical Science Research Council](http://gow.epsrc.ac.uk/ViewGrant.aspx?GrantRef=EP/C548051/1). <http://gow.epsrc.ac.uk/ViewGrant.aspx?GrantRef=EP/C548051/1>. 27 January 2007.

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