

“The Materials Research Centre is a University Technology Partner with Rolls-Royce and, together with the Civil and Computational Engineering Centre the School is the Preferred Academic Partner to BAE Systems in computational modelling, electromagnetics and materials.”¹

- University of Swansea website

University of Swansea 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)
33	£4,571,020	a) 19th b) 18th	1) Rolls Royce 2) EPSRC 3) BAE Systems	1) Engineering 2) Materials Engineering 3) Civil Engineering

School of Materials Engineering

Source/ Sponsor/ Partner	Project	Amount	Dates
EPSRC, Ministry of Defence, British Aerospace Plc, BAE Systems Operations Ltd, Rolls Royce Plc and others	IMI: Design Tool for Welded Structures (CEMWAM II). Project under LINK Scheme	£283,499	Sept 1999 - Sept 2002 ²
EPSRC, Rolls Royce Plc and others	Computer Aided Optimisation of Texture Microstructure and Mechanical Properties in Advanced Titanium Alloys	£191,734	Oct 1999 - Sept 2002 ³
EPSRC, Rolls Royce Plc and others	New Design Methods for Fatigue-Creep and Plastic Collapse	£96,565	Mar 2000 - Feb 2002 ⁴
EPSRC and Rolls Royce Plc	Characterisation of Ceramic-Fibre-Reinforced CMC's Under Fatigue Loading	£61,014	Oct 2000 – April 2002 ⁵
EPSRC, QinetiQ Ltd, Dstl (Farnborough) and Rolls Royce Plc	High Temperature Fatigue/ Creep/ Environment Interactions at Notches in Titanium and Nickel Disc Alloys	£290,211	Jan 2003 - Dec 2005 ⁶
EPSRC, QinetiQ Ltd and Rolls Royce Plc	DARP: Advanced Aerospace Materials - Electrical	£145,152	April 2003 - Mar 2006 ⁷
EPSRC, QinetiQ (Malvern)	Direct Potentiometric Imaging of Latent and Partially Developed	£211,526	May 2004 - April 2007 ⁸

Source/ Sponsor/ Partner	Project	Amount	Dates
and others	Fingerprints using the Scanning Kelvin Probe		
EPSRC, Qinetiq Ltd and Rolls Royce Plc	DARP: Advanced Aerospace Materials - Next Generation Single Crystal and Lifting Methodologies	£52,185	Nov 2005 - Dec 2006 ⁹
Dstl	PhD Opportunity in CFD, Heat Transfer and Experimental Validation	£?	Current as of May 2007 ¹⁰
Rolls Royce Plc, QinetiQ, Dstl, BAE and others	Intermetallic Materials Processing in Relation to Earth and Space Solidification (IMPRESS) Project. Within the Materials Centre of Excellence, and a Flagship Project	Total budget €40,000,000	Current as of May 2007 ¹¹

School of Engineering

Source/ Sponsor/ Partner	Project	Amount	Dates
Rolls Royce	Research Activities at Interdisciplinary Research Centre (IRC). (Multiple grants made)	£285,190	June 2001 ¹²
British Aerospace	CEM Solver: Research into a New Procedure for the Computational Simulation of Electromagnetic Problems (CGV853)	£60,000	Sept 2002 ¹³
Defence Science and Technology Laboratory	PHARO Contract: Finite Element Modelling of Radiative Heat Transfer, Heat Transfer Effects in Aircraft Structures (EGV036)	£126,932	Dec 2002 ¹⁴
British Aerospace	Computational Electromagnetics	£50,000	Jan 2003 ¹⁵
British Aerospace	SICAS: Characterise the Formation of Corrosion Pits in a Commercial Aluminium Alloy and Assess Influence on Subsequent Mechanical Properties. (IDV512).	£68,153	Mar 2003 ¹⁶
Rolls Royce	DARP Engine	£73,038	Apr 2003 ¹⁷
EPSRC The Project will support future work carried out by • QinetiQ and • Rolls Royce	Aerodynamics and Aeroacoustics of Co-Flowing Jets	£344,212	Aug 2004 - Aug 2007 ¹⁸
Ministry of Defence	Research Study for UKHO. (EGR104)	£58,400	Dec 2004 ¹⁹
Rolls Royce	High Temperature Properties	£35,000	May 2005 ²⁰

Source/ Sponsor/ Partner	Project	Amount	Dates
Rolls Royce	Metal Matrix Composites	£67,500	Aug 2005 ²¹
Rolls Royce	Titanium: Mechanical Characterisation of Various Commercial Forms of the Titanium Alloy Ti6-4, Focusing on Fatigue Response at Several Temperatures. (EGV146).	£420,117	Aug 2005 ²²
Rolls Royce	Powder Joining	£20,000	Oct 2005 ²³
Rolls Royce	Cold Dwell Assessment	£72,304	Oct 2005 ²⁴
Rolls Royce	Rolls Royce University Technology Centre in Partnership with: <ul style="list-style-type: none"> University of Birmingham and University of Cambridge <p>“Students work closely with Rolls-Royce engineers and even, in the case of the EngD programme, are based in the Company.”</p>	£?	Current as of May 2007 ²⁵
NASA, Boeing and Rolls Royce Aero Engines	Prediction of Massively Separated Flows and the Complex Vortex Structures that Arise, as part of the Computational Fluid Dynamics Research at University of Swansea	£?	Current as of May 2007 ²⁶
EPSRC and BAE Systems	FLAVIIR Project: Technologies for Future Unmanned Air Vehicles. Integrated Research Programme in Aeronautical Engineering. Collaborative project involving: <ul style="list-style-type: none"> Cranfield University Imperial College of Science Technology and Medicine University of Leicester University of Liverpool University of Manchester University of Nottingham University of Southampton University of Warwick and University of York 	Total of £6,200,000 Split into a 3 Year Research Phase, followed by a 2 year demonstration phase	Current 5-year research programme as of May 2007 ²⁷
Rolls Royce Plc and BAE Systems	Materials Research Centre - Power and Aerospace Materials	£?	Current as of May 2007 ²⁸

School of Civil Engineering

Source/ Sponsor/ Partner	Project	Amount	Dates
EPSRC,	A Discrete Element Approach to	£426,774	Feb 1998 - ..

Source/ Sponsor/ Partner	Project	Amount	Dates
Westland Helicopters Ltd, Rolls Royce Plc and others	the Predictive Modelling of Shot Penning Processes		Feb 2001 ²⁹
EPSRC, Matra Bae Dynamics (UK) Ltd and others	Advanced Injection Moulding Technologies for Plastics: Computer Simulation with Experimental Validation	£322,085	June 1999 - Dec 2002 ³⁰
EPSRC and BAE Systems Plc	Adaptive Finite Element Procedures for Electromagnetic Scattering Simulations	£88,015	Oct 1999 - Sept 2002 ³¹
EPSRC and BAE Systems Plc	Development of Special Finite Elements for Electro-Magnetic Wave Scattering of very short Waves	£209,952	April 2002 - Aug 2005 ³²

School of Mechanical Engineering

Source/ Sponsor/ Partner	Project	Amount	Dates
EPSRC and Rolls-Royce Plc	Learning Cause and Effect Relationships from Example - the Finite Element Way	£159,944	June 2002 - Dec 2005 ³³
EPSRC, GKN Sankey Ltd and others	Squeeze Forming Process Simulation by the Finite Element Method	£351,518	Oct 2002 - Sept 2005 ³⁴

Other projects/ information of note

Climate and Land-Surface Systems Interaction Centre

- The University of Swansea, Wales hosts the Climate and Land-Surface Systems Interaction Centre (CLASSIC) which actively works with EADS Astrium and BAE Systems in many of its projects. The collaborative centre is funded under the Earth Observation Centres of Excellence Programme. Centre contributors include:
 - University of Exeter
 - University of Durham and
 - University of Leicester. ³⁵

Notation

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

Endnotes

¹ "Chair in Aerospace Engineering". Swansea University, Administration, Personnel, Vacancies. <http://www.swan.ac.uk/personnel/Vacancies/Academic/PostTitle,8460,en.asp>. 10 May 2007.

² "Details of Grant". Engineering and Physical Sciences Research Council. <http://gow.epsrc.ac.uk/ViewGrant.aspx?GrantRef=GR/M24165/01>. 10 May 2007.

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- ⁴ “Details of Grant”. Engineering and Physical Sciences Research Council. <http://gow.epsrc.ac.uk/ViewGrant.aspx?GrantRef=GR/M57200/01>. 10 May 2007.
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- ¹⁰ “PhD Opportunity in CFD, Heat Transfer and Experimental Validation”. Swansea University, Materials Centre of Excellence for Technology and Industrial Collaboration. <http://www.swan.ac.uk/mateng/cetic/DSTL-phd.htm>. 10 May 2007.
- ¹¹ “IMPRESS (Intermetallic Materials Processing in Relation to Earth and Space Solidification) Project”. Swansea University, Materials Centre of Excellence for Technology and Industrial Collaboration. <http://cetic.swan.ac.uk/materials/IMPRESS/index.htm>. 10 May 2007. And; “The staff who contribute to the Centre have an established, proven record of industrial collaboration”. Swansea University, Materials Centre of Excellence for Technology and Industrial Collaboration. <http://cetic.swan.ac.uk/materials/partners.htm>. 10 May 2007. And; “Links”. Impress. <http://www.spaceflight.esa.int/impres/>. 16 May 2007.
- ¹² Rowland Williams. University Records Manager, University of Wales Swansea. 13 April 2006. Sent to Fellowship of Reconciliation.
- ¹³ Rowland Williams. University Records Manager, University of Wales Swansea. 13 April 2006. Sent to Fellowship of Reconciliation. And; Rowland Williams. University Records Manager, University of Wales Swansea. 17 May 2006. Sent to Fellowship of Reconciliation.
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<http://www.swan.ac.uk/engineering/Research/MaterialsResearchCentre/ResearchAreas/AerospaceMaterialsResearch/>. 10 May 2007.
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http://stress.swan.ac.uk/mediawiki/index.php/Industrial_links. 10 May 2007. And; "CLASSIC Wiki Homepage". Swansea University, NERC Classic Consortium.
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