

## 2001 Research Assessment Exercise : Outcomes for Welsh HEIs

Unit of Assessment		Ratings and Research Active Staff Measure by Institution												
No.	Name	University of Glamorgan	UW Aberystwyth	UW Bangor	Cardiff	UW Lampeter	UW Swansea	UWCM	UWIC	UWCN	NEWI	SIHE	Trinity	CAWCS
01	Clinical Laboratory Sciences							5 C						
02	Community Based Clinical Subjects							4 B						
03	Hospital Based Clinical Subjects							4 B						
04	Clinical Dentistry							4 C						
05	Pre-Clinical Studies													
06	Anatomy													
07	Physiology													
08	Pharmacology													
09	Pharmacy				5 A									
10	Nursing	3b B					3b B	4 D				1 E		
11	Other Studies Allied to Medicine				5* A				3b D					
13	Psychology			5* A	5* A		4 A							
14	Biological Sciences		3a A	4 A			3a A							
14A	Mammalian & Medical Biology				5 A									
14B	Ecological & Environmental Biology				4 A									
15	Agriculture		3a C	5 C										
16	Food Science and Technology								3b C					
18	Chemistry			3a A	4 A		4 A				3a A			
19	Physics		4 A		5 A		5 A							
20	Earth Sciences				5 A									
21	Environmental Sciences			4 A										
22	Pure Mathematics		3b A	3a C	5 A		5 C							
23	Applied Mathematics		4 A											
24	Statistics & Operational Research													
25	Computer Science	4 D	4 A		5 A		5 B							
26	General Engineering													
27	Chemical Engineering													
28	Civil Engineering				5* A		5* B							
29	Electrical & Electronic Engineering		2 A	4 B	5 A		4 C							
30	Mechanical, Aero & Manufacturing Eng.				4 A		4 A			3a D		2 E		
32	Metallurgy & Materials													
33	Built Environment	3b C			5 A									
34	Town & Country Planning				5* A							1 E		
35	Geography		4 A				4 A							
36	Law		4 B		5 C		3a B							
37	Anthropology					3a A	3a A							
38	Economics & Econometrics						4 A							
39	Politics & International Studies		5* A				3a B							
40	Social Policy & Administration	3a A		3a A			3a B							
41	Social Work						5 A				2 C			
42	Sociology				5 A									
43	Business & Management Studies	3b D	3b C		5 B		3a D							
44	Accountancy			5 B										
45	American Studies						3a A							
46	Middle Eastern & African Studies					3a A								
48	European Studies				5 A									
49	Celtic Studies		5* A	5* A	5 A	3b C	5 A							5 C
50	English Language & Literature	4 B	4 B	4 B	5* B	5 B	4 A							
51	French		3a A	4 D		3b D	4 A							
52	German & Related Studies		4 A	3a A			5 A							
53	Italian						4 A							
54	Russian													
55	Spanish		3a A				5 B							
56	Linguistics			3b B										
57	Classics & Ancient History					3a C	4 A							
58	Archaeology				5 A	4 A			3a A				3b A	
59	History	3a C	4 A	4 B	5 A	4 A	4 A							
60	History of Art, Architecture and Design													
61	Library & Information Management		3a B											
62	Philosophy				3a C	3a A								
63	Theology, Divinity & Religious Studies			4 B	5* A	5 C							2 A	
64	Art & Design		3a A						4 D	5 E	2 E	3b D		
65	Communication & Media Studies				5 B									
66	Drama, Dance & Performing Arts	2 C	5 B											
67	Music			5 C	5 C									
68	Education		3a B	3a F	5* A		3a B				2 E	2 F		
69	Physical Education & Sports Sciences	3b B		5 A					3a F					

**Note:** Capital letters indicate the proportion of A and A\* staff submitted who were denoted as research active : A = 95-100%, B = 80-95%, C = 60-80%, D = 40-60%, E = 20-40%, F = below 20%

## 2001 RESEARCH ASSESSMENT EXERCISE: RATING SCALE

## THE RATING SCALE

- .....
- 5\*      Quality that equates to attainable levels of international excellence in more than half of the research activity submitted and attainable levels of national excellence in the remainder.
- .....
- 5        Quality that equates to attainable levels of international excellence in up to half of the research activity submitted and to attainable levels of national excellence in virtually all of the remainder.
- .....
- 4        Quality that equates to attainable levels of national excellence in virtually all of the research activity submitted, showing some evidence of international excellence.
- .....
- 3a      Quality that equates to attainable levels of national excellence in over two thirds of the research activity submitted, possibly showing evidence of international excellence.
- .....
- 3b      Quality that equates to attainable levels of national excellence in more than half of the research activity submitted.
- .....
- 2        Quality that equates to attainable levels of national excellence in up to half of the research activity submitted
- .....
- 1        Quality that equates to attainable levels of national excellence in none, or virtually none, of the research activity submitted.
- .....

## PROPORTION OF STAFF SUBMITTED

In the published RAE outcomes, the rating awarded will be followed by a letter – A to F – denoting the proportion of staff submitted as research active. This scale will run as follows:

- A        95-100 per cent of staff submitted  
 B        80-94.9 per cent  
 C        60-79.9 per cent  
 D        40-59.9 per cent  
 E        20-39.9 per cent  
 F        below 20 per cent

## ANNEX B

### FUNDING FOR QUALITY RESEARCH (QR)

The Council's main grant to HEIs for research is known as QR. This funding is allocated selectively by formula to recognise and reinforce research quality and excellence.

The allocation formula is based on the outcomes of the periodic UK-wide Research Assessment Exercises (RAEs) which assess the quality of institutions' research activity by subject area. Funding is restricted to departments rated 4, 5 and 5\* in the 2001 RAE, these being the three highest rating categories. A more detailed explanation of the allocation formula is provided at **Annex F**.

In 2005/06, HEFCW is providing a total of £59.4 million through QR. The allocations to individual institutions are as follows:

#### *2005/06 QR Allocations*

INSTITUTION	2005/06 QR ALLOCATION	
		£m
University of Glamorgan		1.135
UW Aberystwyth		4.887
UW Bangor		7.466
Cardiff University		36.188
UW Lampeter		1.127
UW Swansea		7.184
University of Wales Institute, Cardiff		0.898
University of Wales, Newport		0.303
Centre for Advanced Welsh and Celtic Studies		0.238
<b>TOTAL</b>		<b>59.427</b>

## HEFCW RESEARCH FUNDING - ACADEMIC YEARS 1996/97 TO 2005/06

	1996/97	1997/98	1998/99	1999/2000	2000/01	2001/02	2002/03	2003/04	2004/05	2005/06
	£M	£M	£M	£M	£M	£M	£M	£M	£M	£M
<b>Research Funding</b>										
QR	39.0	40.2	40.2	43.9	44.8	45.8	60.0	61.5	57.4	59.4
CR	1.3	1.3	1.4	1.5	1.5	1.5	0.0	0.0	0.0	0.0
Supplementary Research/QR Funding	0.0	0.0	0.0	0.7	0.0	6.0	0.0	0.0	0.0	0.0
Research Capacity Development Fund	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9	2.9	0.0
Research Investment Fund	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	4.1
Research Volume Initiative	0.0	0.0	0.0	1.5	1.5	1.5	0.0	0.0	0.0	0.0
Pockets of Quality Research Initiative	0.0	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0
Wealth Creating Research Initiative	0.0	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DevR Initiative	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Technology Foresight Initiative	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Overseas Research Students Awards Scheme	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4
Joint Research Equipment Initiative	0.0	0.8	1.0	1.9	1.1	0.0	0.0	0.0	0.0	0.0
Research Capital	2.2	0.0	1.5	3.2	8.2	11.8	0.0	0.0	0.0	0.0
Science Research Investment Fund	0.0	0.0	0.0	0.0	0.0	0.0	10.8	10.8	10.8	10.8
<b>Total Research Funding</b>	<b>44.7</b>	<b>43.0</b>	<b>44.8</b>	<b>53.2</b>	<b>57.6</b>	<b>67.1</b>	<b>74.0</b>	<b>75.5</b>	<b>75.6</b>	<b>74.7</b>
<b>Third Stream Funding</b>										
Knowledge Exploitation Fund (KEF)*	0.0	0.0	0.0	0.0	0.03	1.6	4.9	0.0	0.0	0.0
Third Mission Funding	0.6	0.7	0.8	1.2	1.9	1.8	4.3	4.9	4.9	4.9
<b>Total third stream funding</b>	<b>0.6</b>	<b>0.7</b>	<b>0.8</b>	<b>1.2</b>	<b>1.9</b>	<b>3.4</b>	<b>9.2</b>	<b>4.9</b>	<b>4.9</b>	<b>4.9</b>

\*NOTE: The KEF figures are based on actual expenditure which, in 2000/01 and 2001/02 differed from allocations.

The allocations were: 2000/01 - £2.5 m; 2001/02 - £5.0 m.

The KEF funding stream was transferred to the Welsh Development Agency (WDA) in 2003/04.

## SUMMARY OF NON-HEFCW RESEARCH FUNDING WON BY WELSH HEIs, 1996/97- 2003/04

YEAR	SOURCE OF FUNDING							TOTAL
	RESEARCH COUNCILS	UK-BASED CHARITABLE BODIES	UK CENTRAL GOVERNMENT BODIES	UK INDUSTRY, COMMERCE AND PUBLIC CORPORATIONS	EU SOURCES	OTHER OVERSEAS SOURCES	OTHER SOURCES	
	£K	£K	£K	£K	£K	£K	£K	£K
<b>1996/97</b>	14,751	8,118	12,853	6,469	5,437	1,506	1,897	51,031
<b>1997/98</b>	15,399	7,947	14,878	9,633	5,329	1,788	3,276	58,250
<b>1998/99</b>	17,375	9,319	14,894	9,668	6,820	1,965	3,161	63,202
<b>1999/2000</b>	19,276	10,418	18,435	11,359	6,289	2,524	2,768	71,069
<b>2000/01</b>	23,007	12,717	19,776	10,310	5,951	2,580	4,466	78,807
<b>2001/02</b>	27,265	13,328	21,922	8,818	5,996	2,312	8,343	87,984
<b>2002/03</b>	28,049	14,974	22,749	9,549	8,045	2,272	9,962	95,600
<b>2003/04</b>	28,840	16,608	24,545	9,488	9,108	2,047	6,237	96,873

**NOTES**

Data Source: HESA Resources for Institutions of Higher Education

Data is collected retrospectively by HESA each year. 2003/04 is the latest year for which figures are currently available.

Table 1: Welsh HEI Expertise and facilities as applied to Industry

	Industry / Sectors / Technologies (Knowledge Economy Nexus Report)	CETIC	Other Academic Groups	Facilities / Fora
1	<p><b>Healthcare / Bioscience</b></p> <p>(Chemicals / Pharmaceuticals / Bioscience)</p> <p>(Social Care)</p>	<p>Wound Healing Research Unit (CU - formerly UWCM)</p> <p>AberBioCentre (UWA / IGER)</p> <p>Centre for Applied Marine Sciences CAMS (UWB)</p> <p>Institute for Bioelectronic and Molecular Microsystems IBMM (UWB)</p> <p>Centre for Advanced and Renewable Materials CARM (UWB)</p>	<p>Institute of Medical Genetics (CU - formerly UWCM)</p> <p>Cardiff Institute of Tissue Engineering and Repair CITER (CU - formerly UWCM)</p> <p>Cardiff School of Bioscience (CU)</p> <p>Wales Cancer Trials Network</p> <p>Welsh Heart Research Institute (CU - formerly UWCM)</p> <p>Biomedical Research Centre (CU - formerly UWCM)</p> <p>Wales Institute for Forensic Medicine (CU - formerly UWCM)</p> <p>Welsh School of Pharmacy (CU)</p> <ul style="list-style-type: none"> <li>- Medicinal chemistry</li> <li>- Drug Action</li> <li>- Drug Delivery</li> <li>- Health &amp; medicines</li> </ul> <p>Department of optometry &amp; Vision Sciences (CU)</p> <p>Wales Network in Wound healing, tissue repair and burns and plastic surgery - (Proposed) TTN</p> <p>Biomechanics - Meditech (CU - formerly UWCM)</p> <p>Aquaculture Wales (UWS)</p> <p>Institute for Medical and Social Care Research IMSCAR (UWB)</p> <p>Bangor School of Biological Sciences (UWB)</p> <p>Centre for Cognitive Neuroscience (UWB)</p> <p>Bangor School of Psychology (UWB)</p>	<p>Wales Gene Park</p> <p>Human Gene Mutation database (CU - formerly UWCM)</p> <p>Institute of Life Sciences (UWS)</p> <p>Clinical Research in Diabetes (CU formerly UWCM)</p> <p>Cardiff University Brain and Repair Imaging Centre (CUBRIC)</p> <p>Biobank Cymru</p> <p>Research Vessel Prince Madog (UWB)</p>

		<p>National Centre for Product Design &amp; Development Research (Medical Applications Group) (UWIC)</p>	<p>Bangor School of Ocean Sciences (UWB)</p> <p>Wolfson Institute of Clinical and Cognitive Neuroscience (UWB)</p> <p>Bangor School of Sport, Health and Exercise Sciences (recovery from injury) (UWB)</p> <p>Cardiff School of Biosciences (CU), including research groupings in Connective Tissue Biology; Genetics; Molecular Cell Biology; Neuroscience; Microbiology; Biodiversity and Ecological Processes.</p> <p>Wales Cancer Institute (CU) - Wales Cancer Trials Network - Wales Cancer Bank</p> <p>School of Optometry &amp; Vision Sciences (CU)</p> <p>ESRC Research Centre on Social and Economic Aspects of Genomics (CU &amp; Lancaster)</p>	
<p>2</p>	<p><b>Behavioural sciences</b></p> <p><i>(Social Care)</i></p>		<p>Centre for Experimental Consumer Psychology (UWB)</p> <p>Wolfson Institute of Clinical and Cognitive Neuroscience (UWB)</p> <p>Institute for the Psychology of Elite Performance (UWB)</p> <p>Institute for Medical and Social Care Research (IMSCAR) (UWB)</p> <p>Bangor School of Sport, Health and Exercise Sciences (UWB)</p>	

			<p>School of Psychology (CU)                  Dept of Psychology (UW Bangor)                  School of Journalism (CU)                  International Politics (UWA)                  School of Social Sciences (CU) - Cardiff                  Institute of Society Health and Ethics</p>	
<p>3</p>	<p><b>Creative industries</b></p> <p><i>(Creative industries)</i></p>	<p>Centre for Advanced Software and Intelligent Systems CASIS (CU / UWA)</p> <p>National Centre for Product and Design Research PDR - (UWIC)</p>	<p>UWN : - The Centre                  for Photographic Research                  - Smart Clothes and Wearable Technology                  - Metatechnology                  - International Film School, Wales                  - Computer Games Research Group -                  ArtLab</p> <p>SIHE : Faculty of Advanced Design Engineering:                  - School of Computer and Internet Technology                  - School of Digital Media - the                  Glass portfolio - School                  of Industrial Design</p> <p>UG : Media and Cultural Studies</p> <p>(NEWI and UWA also active in the broad descriptor of Creative Industries)</p> <p>Welsh Institute of Social and Cultural Affairs WISCA (UWB)</p> <p>Centre for Design and Technology (UWB)</p> <p>Bangor School of Arts and Humanities (UWB)</p> <p>Bangor School of Music (UWB)</p> <p>Innovative Manufacturing Centre (CU)</p> <p>CU: School of Journalism</p>	<p>Design Wales</p> <p>Technium Digital</p> <p>Digital Matrix</p> <p>Technium CAST (Centre for Advanced Software Technology)</p> <p>Molecular Modelling and Visualisation Centre (UWB)</p> <p>Theatre Film and TV Studios (UWA)</p>

			<p>UWIC :          - Cardiff School of Art &amp; Design          - Interpreting Ceramics Research Group (with UWA and English University partners)          - The Cardiff Group (design, development studies and economics) with partners.E33</p>	<p>South West Wales eTraining network (Trinity Carms)</p>
4	<p><b>Electronics / Optoelectronics</b></p> <p>(Electronics)</p>	<p>Institute of Bioelectronic and Molecular Microsystems IBMM (UWB)</p> <p>Industrial and Commercial Optoelectronics ICON (UWB)</p> <p>Centre for Advanced and Renewable Materials CARM (UWB / NEWI)</p> <p>Centre for Electronic Product Engineering CEPE (UG)</p> <p>Manufacturing Engineering Centre MEC (CU)</p> <p>EPOCS (UW Newport)</p> <p>Wolfson Centre for Magnetics Technology (CU)</p>	<p>Cardiff Centre for Multidisciplinary Microtechnology (CU)</p> <p>Power Electronics Design Centre (UWS)</p> <p>High Frequency Laboratory (CU)</p> <ul style="list-style-type: none"> <li>• School of Electronics</li> <li>• System Identification &amp; Control Research Group</li> <li>• Radiowave Propagation and System Design Research Group</li> <li>• Medical Electronics and Signal Processing Research Group</li> <li>• Creative Technologies Research Group (University of Glamorgan)</li> </ul> <p>School of Informatics (UWB)</p> <p>School of Physics (CU)</p>	<p>Technium OpTIC</p> <p>Technium Swansea</p> <p>Manufacturing Advisory Service (MAS) Cymru</p> <p>State-of-the-art laboratory including an anechoic chamber (University of Glamorgan)</p> <p>IBMM's Laser Micromachining Centre (UWB)</p>

5	<p><b>Nano and Micro Technology</b></p> <p><i>(Electronics)</i></p>	<p>Institute of Bioelectronic and Molecular Microsystems IBMM (UWB)</p> <p>Industrial and Commercial Optoelectronics ICON (UWB)</p> <p>Manufacturing Engineering Centre MEC (CU)</p> <p>Centre for Complex Fluids Processing (UWS)</p> <p><b>Wolfson Centre for Magnetics Technology (CU)</b></p> <p>Centre for Advanced and Renewable Materials (NEWI) (CARM) - - Carbon nanotubes, Nano particules, polymer assembly</p>	<p><b>Cardiff Centre for Multidisciplinary Microtechnology (CU)</b></p> <p>Power Electronics Design Centre (UWS)</p> <p>School of Informatics (UWB)</p> <p>Welsh Centre for Printing and Coating (UWS) and Multidisciplinary Nanotechnology Centre (UWS)</p> <p>Multidisciplinary Research and Innovation Centre (NEWI) - Carbon nanotubes</p> <p>Dept of Chemistry (CU)</p>	<p>Nanotechnology Centre (UWS)</p> <p>Micro manufacture by Printing laboratory - UWS (Proposed)</p> <p>Institute of Life Sciences (UWS)</p> <p>Technium OpTIC</p> <p>1 - Centre for Water Soluble Polymers (NEWI) - 2 - Advanced Materials Research Laboratory (NEWI) - 3 - Optic Technium, St Asaph (NEWI)</p> <p>UK Laser Machining Centre (UWB) MEC (CU) Microbridge Proposal Coleg Sir Gar MNT Training CU / TRIKON Pfab</p> <p>CU /</p>
6	<p><b>ICT / Software / Communications</b></p> <p><i>(Electronics)</i></p>	<p>Centre for Communications and Software Technologies (UWS)</p> <p>Centre for Advanced Software and Intelligent Systems CASIS (UWA / CU)</p> <p>Centre for Electronic Product Engineering CEPE (UG)</p> <p><b>EPOCS (UW Newport)</b></p>	<p>Communication Systems - School of Informatics (UWB)</p> <p>Mobile Computing and Networking - Computer Studies (UG)</p> <p>Wireless Communications - Computer Science (UG)</p> <p>Communications Research Centre (CU)</p> <p>High Frequency Research Group (CU)</p> <p>Faculty Advanced Design Engineering (SIHE)</p> <p>IAT (UWS)</p>	<p>Technium OpTIC</p> <p>Technium Auto (Proposed) - Telematics and Communications</p> <p>Agilent Teaching Laboratory (CU)</p> <p>Technium Digital</p> <p>Technium CAST</p> <p>Technium Aberystwyth</p> <p>Technium Swansea</p> <p>The Centre for Visualisation in Wales (UWA)</p>

			<p>e-commerce Innovation Centre (CU)</p> <p>Mobile Communications Group - School of Computing (CU)</p> <ul style="list-style-type: none"> <li>• School of Computing</li> <li>• Division of Mathematics and Statistics</li> <li>• Radiowave Propagation and System Design Research Group</li> <li>• AI Technologies Modelling Research Group</li> <li>• Digital Imaging Data Compression Research Group</li> <li>• GIS Research Group</li> <li>• Hypermedia Research Group</li> <li>• Information Security and Computer Forensics Research Group</li> <li>• Information Systems Engineering Research Group</li> <li>• Medical Computing Research Group</li> <li>• Mobile Computing and Networking Research Group</li> <li>• Data and Software Integrity Research Unit</li> </ul> <p>(University of Glamorgan)</p>	<p>Welsh e-Science Centre - Grid Computing (based at CU)</p> <p>State-of-the-art Computer Forensics Laboratory</p> <p>State-of-the-art Network Security Laboratory</p> <p>(University of Glamorgan)</p>
<p>7</p>	<p><b>Transport (inc Aero and Automotive)</b></p> <p><i>(Aerospace and Automotive)</i></p>	<p>Civil and Computational Engineering (UWS)</p> <p>Materials Centre of Excellence (UWS)</p> <p>Centre for Electronic Product Engineering CEPE (UG)</p>	<p>QinetiC / Cardiff Technology Centre in Sustainable Power - ECMM</p> <p>Welsh Aerospace KEF TTN (Proposed) NEWI</p> <ul style="list-style-type: none"> <li>• Wales Transport Research Centre</li> <li>• Mechanical and Manufacturing Engineering Research Unit</li> </ul> <p>(University of Glamorgan)</p>	<p>Linked to the International Centre for Aerospace Training (ICAT) @ Rhosce</p> <p>(University of Glamorgan)</p>

	<p>National Centre for Product and Design Research PDR - (UWIC)</p> <p>Manufacturing Engineering Centre MEC (CU)</p> <p>Industrial and Commercial Optoelectronics ICON (UWB)</p> <p>Institute for Bioelectronic and Molecular Microsystems IBMM, (UWB)</p> <p>Centre for Advanced and Renewable Materials CARM, (UWB/NEWI)</p> <p>Centre for Applied Marine Sciences CAMS (UWB)</p> <p>EPOCS (UW Newport)</p> <p>Wolfson Centre for Magnetics Technology (CU)</p>	<p>Network in Sustainable Power Management and Energy Systems Modelling KEF TTN (UWS)</p> <p>School of Automotive Engineering (SIHE)</p> <p>Lean Engineering Research Centre - LERC (CU)</p> <p>The Biocomposites Centre (UWB)</p> <p>Logistics Systems Dynamics Group - LSDG (CU)</p> <p>EPSRC Innovative Manufacturing Research Centre - CU-IMRC (CU)</p> <p>Fluid and Structures Computational Centre (NEWI)</p> <p>IAT (UWS)</p>	<p>Virtual Reality Prototyping Suite - MEC (CU)</p> <p>Engineering Centre for Manufacturing and Materials (ECMM) Port Talbot</p> <p>Manufacturing Advisory Service (MAS) Cymru</p> <p>UAV Centre - Parc Aberporth</p> <p>Design Wales</p> <p>Molecular Modelling and Visualisation Centre (UWB)</p> <p>Management Development Centre (UWB)</p> <p>Materials and Chemical Pilot Plant, Biocomposites Centre, (UWB)</p> <p>Research Vessel Prince Madog (UWB)</p>
<p>Renewable Energy (earth / environment) - low carbon/high resource efficiency</p>			

8		Centre for Research in Energy, waste and the Environment (CU)	H2 Research Group (UG)	Technium Sustainable Technologies
		Centre for Engineering Research and Environmental Applications CERA (UG)	<ul style="list-style-type: none"> <li>• Sustainable Environmental Research Centre</li> <li>• Hydrogen Research Unit</li> <li>• Advanced Treatment Technology on Resource Reuse - proposed</li> </ul>	Linked to EPSRC's SUPERGEN programme
	(Energy and Renewables)		(University of Glamorgan)	(University of Glamorgan)
		Centre for Applied Marine Sciences CAMS (UWB)	Low Carbon Materials Development Centre (UWB - Proposed)	Manufacturing Advisory Service (MAS) Cymru
			Advanced Treatment Technology on Resource Reuse (UG) - Proposed	
			Centre for Health & Environmental Research & Expertise (UWA)	
			Aquaculture Wales (UWS)	Hydrogen Valley Partnership
			Bangor Department of Chemistry - Photovoltaics Solar Energy (UWB)	Free Air Carbon Dioxide Enrichment FACE (UWB)
			Bangor School of Agriculture and Forest Sciences (UWB)	
			ESRC Centre for Business Relationships, Sustainability and Society - BRASS (CU)	Wales Waste and Resources Research Centre - WWRReC (all-Wales, CU base)
			Wales Biomass Centre (CU)	Welsh Energy Research Centre (based at ECMM, proposed)
			School of Earth, Ocean and Planetary Sciences (CU)	Consortium (led by Cardiff University) for a Geoenvironmental Research Park (Trinity Carms)
		AberBio Centre (UWA / IGER)	School of City and Regional Planning (CU)	
			IGER	IGER
	Materials		Global Warming Research (UWA)	
			Fluvio River Basin and Hydrology Research Group (UWA)	
		Centre for Advanced and Renewable Materials CARM (UWB / NEWI)	Interdisciplinary Research Centre (UWS)	Engineering Centre for Manufacturing and Materials (ECMM) Port Talbot
		Materials Centre of Excellence (UWS)	Printing and Coating Research Centre (UWS)	

		<p>National Centre for Product and Design Research PDR - UWIC</p> <p>Wolfson Centre for Magnetics Technology (CU)</p> <p>Centre for Research and Environmental Applications CEREAA (University of Glamorgan)</p>	<p>Engineering Doctorate Scheme (UWS - Corus) CU?</p> <p>Bangor School for Agriculture and Forest Sciences (UWB)</p> <p>The Biocomposites Centre (UWB)</p>	<p>Manufacturing Advisory Service (MAS) Cymru</p>
<p>9</p>	<p><b>(Sustainable) Construction</b></p> <p>(Construction)</p>	<p>Centre for Research in the Built Environment CRiBE (CU)</p> <p>Centre for Research in Energy, waste and the Environment (CU)</p> <p>Centre for Research and Environmental Applications (UG)</p> <p>Centre for Advanced and Renewable Materials CARM (UWB/NEWI)</p> <p>Centre for Research and Environmental Applications CEREAA (University of Glamorgan)</p>	<p>Civil Engineering (CU) - Concrete and Masonry Expertise - Structural Analysis and Informatics</p> <p>Geoenvironmental Research Centre (CU)</p> <p>Environmental Water Management Research Centre (CU)</p> <p>City &amp; Regional (Town and Country) Planning (CU)</p> <p>Welsh School of Architecture (CU)</p> <ul style="list-style-type: none"> <li>• Building Materials Research Unit</li> <li>• Construction Management Research Unit</li> <li>• Sustainability Research Group</li> <li>• Civil Engineering Mechanics Research Unit</li> <li>• Wastewater Treatment Research Unit</li> </ul> <p>(University of Glamorgan)</p> <p>Bangor Department of Chemistry - Photovoltaics Solar Energy (UWB)</p> <p>The Biocomposites Centre (UWB)</p> <p>Bangor School for Agriculture and Forest Sciences (UWB)</p>	<p>Facilities / Laboratories (CRiBE - CU) -  Environmental Design and use of Buildings -  - Urban sustainable development -  Environmental Laboratory (sky and helidome)</p> <p>Technium Sustainable Technologies (Proposed)</p> <p>UKAS approved laboratories (University of Glamorgan)</p>

<p>10</p>	<p><b>Agri-food</b></p> <p>(Agri-food)</p>	<p>AberBio Centre (UWA / IGER)</p>	<p>IGER</p> <p>Welsh Institute of Rural Studies</p> <p>- Welsh Organic Centre</p> <p>Business survey unit</p> <p>UWB</p> <p>- Animal Science Research</p> <p>Environmental Research</p> <p>Crop Science Research</p> <p>Forest and Fibre Products Research</p> <p>- Rural Science</p> <p>UWIC - Food Industry Centre</p> <p>Institute of Food, Active Living and Nutrition, Cymru (UWB)</p> <p>Bangor School for Agriculture and Forest Sciences (UWB)</p> <p>Bangor School of Psychology (UWB)</p> <p>Centre for Experimental Consumer Psychology (UWB)</p> <p>Bangor Food Research Unit (UWB)</p> <p>The Biocomposites Centre (UWB)</p> <p>Environmental Planning Research Unit (EPRU) in School of City and Regional Planning (CU)</p> <p>The Biocomposites Centre (UWB)</p> <p>• Health and Exercise Science Research Unit – expertise in food science and technology</p> <p>(University of Glamorgan)</p>	<p>IGER</p> <p>University Farms (IGER Farms not University)</p> <p>Timber Forum</p> <p>Centre for Alternative Land Use CALU (UWB)</p>
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## THE QR FUNDING FORMULA

- 1 The QR funding formula allocates funding selectively to recognise and reinforce research excellence.
- 2 The key data in the QR formula are provided by the Research Assessment Exercises (RAEs) which have been conducted periodically by the four UK higher education funding bodies. In the most recent RAE, conducted in 2001, submissions were made in 68 subjects or Units of Assessment (UoAs), and these submissions were rated for quality on a seven point scale – 5\*, 5, 4, 3a, 3b, 2, 1. A rating of 5\* indicated research of international excellence, and a rating of 1 indicated little or no research of national excellence.
- 3 Drawing on the outcomes of the 2001 RAE, the Council allocates QR funding by UoA. The level of allocations depends on the following factors:
  - **RAE rating (Q)** – Since 2004/05, QR funding has been made available only to departments with RAE ratings of 4, 5 or 5\*. The Council weights the ratings in its allocation formula so that those UoAs with the highest ratings stand to gain the most funding. The weightings currently used, with the percentage steps between them in parenthesis, are as follows:
 

4	1.00	
5	1.50	(50%)
5*	1.88	(25%)
  - **Research Volume (V)** – this consists of one major volume measure - the Full-Time Equivalent (FTE) number of research active staff returned to the 2001 RAE – and a number of minor volume measures. The volume measures currently used, and the weightings attached to them, are as follows:
 

Research active staff	1.00
Research students	0.15
Research assistants	0.10
Research fellows	0.10
Charitable income converted into FTE staff numbers	0.25
  - **Subject Cost Relativities (C)** - Subjects (UoAs) are divided into three bands and weighted to reflect their relative costs. The bands and their weights are:
 

Clinical medicine and laboratory based subjects	1.6
Subjects with a technical/experimental premium	1.3
Other subjects	1.0
  - **UK Average Ratings Factor (R)** - This is a moderating factor which takes account of the average rating in each UoA.
- 4 The allocation for each eligible Unit of Assessment is calculated by multiplying its weighted RAE rating (Q) by its Research Volume (V) and the appropriate Subject Cost Relativity (C), and then dividing the outcome by the UK Average Rating Factor (R).
- 5 The overall product of the QR formula is scaled to the total amount of funding available for QR in the year in question.

## HE-BCI 2004 Survey (Part B)

### A breakdown of the survey results by region

Data as at 22 November 2004 (relating to the academic year 2002-03)

#### 1a Collaborative research involving both public funding and funding from business

Region	OST Research Councils (£000s)	Other Government departments (£000s)	EU Government (£000s)	Other (£000s)	Total (£000s)	
	2002-03	2002-03	2002-03	2002-03	2002-03	2001-02
North East	15,742	12,695	7,154	4,337	39,928	38,771
North West	28,230	9,917	8,906	3,417	50,470	45,213
Yorkshire and the Humber	7,312	12,215	3,478	4,899	27,904	22,702
East Midlands	18,640	7,276	9,034	4,317	39,267	38,545
West Midlands	4,302	4,747	2,137	1,934	13,120	25,967
East of England	15,153	16,622	9,190	17,357	58,322	40,065
London	33,703	12,969	21,371	2,765	70,808	55,789
South East	35,352	11,290	16,449	3,511	66,602	75,361
South West	3,627	2,691	2,486	1,497	10,301	12,829
England	162,061	90,422	80,205	44,034	376,722	355,242
Northern Ireland	6,928	12,471	2,991	5,321	27,711	23,765
Scotland	14,750	4,467	14,185	10,241	43,643	52,017
Wales	15,386	13,524	3,454	16,739	49,103	38,330
<b>UK total</b>	<b>199,125</b>	<b>120,884</b>	<b>100,835</b>	<b>76,335</b>	<b>497,179</b>	<b>469,354</b>

#### 1b Research contracts (excluding any already returned in 1a)

Region	Number with SMEs		Total value with SMEs (£000s)		Number with other (non-SME) commercial businesses	Total value with other (non-SME) commercial businesses (£000s)	Number with non-commercial organisations	Total value with non-commercial organisations (£000s)	Total number of contracts		Total value of contracts (£000s)	
	2002-03	2001-02	2002-03	2001-02					2002-03	2001-02	2002-03	2001-02
North East	48	106	1,108	1,625	292	10,133	285	5,266	625	472	16,507	9,177
North West	154	229	3,250	4,477	440	15,203	411	5,668	1,005	774	24,121	19,918
Yorkshire and the Humber	246	149	5,446	2,452	934	31,198	2,074	61,996	3,254	814	98,640	32,539
East Midlands	1,055	1,007	3,496	2,334	901	15,396	545	8,415	2,501	1,961	27,307	26,773
West Midlands	206	172	1,936	4,275	529	7,534	680	12,578	1,415	654	22,048	20,858
East of England	172	139	3,952	3,252	701	29,622	1,320	33,137	2,193	578	66,711	26,681
London	164	100	7,454	8,455	1,315	48,803	1,714	70,517	3,193	1,689	126,774	88,652
South East	1,555	217	6,424	3,107	1,282	31,812	2,072	28,387	4,909	984	66,624	32,799
South West	134	128	2,494	1,668	675	12,643	1,312	33,269	2,121	571	48,406	10,201
England	3,734	2,247	35,560	31,645	7,069	202,344	10,413	259,233	21,216	8,497	497,138	267,598
Northern Ireland	62	992	935	2,386	62	2,032	79	2,488	203	1,108	5,455	4,896
Scotland	268	56	4,067	740	764	29,211	2,026	102,718	3,058	967	135,996	39,171
Wales	84	215	1,651	4,576	359	6,326	598	13,142	1,041	531	21,119	16,784
<b>UK total</b>	<b>4,148</b>	<b>3,510</b>	<b>42,213</b>	<b>39,347</b>	<b>8,254</b>	<b>239,913</b>	<b>13,116</b>	<b>377,581</b>	<b>25,518</b>	<b>11,103</b>	<b>659,708</b>	<b>328,449</b>

## 2a Consultancy contracts

Region	Number with SMEs	Total value with SMEs (£000s)	Number with other (non-SME) commercial businesses	Total value with other (non-SME) commercial businesses (£000s)	Number with non-commercial organisations	Total value with non-commercial organisations (£000s)	Total number of contracts		Total income (£000s)	
	2002-03	2002-03	2002-03	2002-03	2002-03	2002-03	2002-03	2001-02	2002-03	2001-02
North East	872	4,360	362	3,162	715	1,005	1,949	448	8,527	6,111
North West	2,083	2,741	313	1,813	469	3,535	2,865	1,390	8,089	4,688
Yorkshire and the Humber	347	931	318	3,254	256	2,316	921	818	6,501	5,704
East Midlands	264	882	252	2,084	281	3,631	797	675	6,597	4,856
West Midlands	1,350	1,748	322	2,655	694	11,878	2,366	1,153	16,281	14,313
East of England	754	2,061	304	3,942	151	2,653	1,209	558	8,656	8,539
London	521	1,471	904	11,531	1,601	22,815	3,026	3,147	35,817	25,608
South East	160	2,860	250	5,218	787	8,679	1,197	1,087	16,757	18,969
South West	334	936	303	4,323	480	13,339	1,117	473	18,598	4,907
England	6,685	17,990	3,328	37,982	5,434	69,851	15,447	9,749	125,823	93,695
Northern Ireland	229	943	25	102	127	471	381	30	1,516	536
Scotland	471	3,074	796	8,492	769	9,230	2,036	1,627	20,796	15,442
Wales	363	3,887	106	7,655	549	8,474	1,018	780	20,016	12,482
<b>UK total</b>	<b>7,748</b>	<b>25,894</b>	<b>4,255</b>	<b>54,231</b>	<b>6,879</b>	<b>88,026</b>	<b>18,882</b>	<b>12,186</b>	<b>168,151</b>	<b>122,155</b>

## 2b Facilities and equipment related services- organisations involved and income

Region	Number with SMEs	Total value with SMEs (£000s)	Number with other (non-SME) commercial businesses	Total value with other (non-SME) commercial businesses (£000s)	Number with non-commercial organisations	Total value with non-commercial organisations (£000s)	Total number		Total income (£000s)	
	2002-03	2002-03	2002-03	2002-03	2002-03	2002-03	2002-03	2001-02	2002-03	2001-02
North East	152	171	73	315	176	282	401	316	768	576
North West	591	1,566	215	614	261	534	1,067	615	2,714	1,772
Yorkshire and the Humber	207	569	243	1,570	199	3,234	649	643	5,373	3,711
East Midlands	489	1,550	350	2,155	215	1,158	1,054	877	4,863	4,795
West Midlands	715	1,388	316	1,140	395	540	1,426	526	3,068	657
East of England	20	24	5	925	25	61	50	295	1,010	3,049
London	347	962	780	6,108	681	3,343	1,808	1,676	10,413	8,159
South East	257	1,771	216	1,775	521	2,843	994	593	6,389	5,546
South West	91	180	42	645	67	235	200	244	1,060	855
England	2,869	8,181	2,240	15,247	2,540	12,230	7,649	5,785	35,658	29,120
Northern Ireland	121	136	1	4	9	34	131	49	174	94
Scotland	119	620	250	16,804	354	7,575	723	443	24,999	19,752
Wales	380	1,794	104	1,127	294	2,780	778	367	5,701	1,477
<b>UK total</b>	<b>3,489</b>	<b>10,731</b>	<b>2,595</b>	<b>33,182</b>	<b>3,197</b>	<b>22,619</b>	<b>9,281</b>	<b>6,644</b>	<b>66,532</b>	<b>50,443</b>

**2c Income from non-credit bearing courses (excluding individuals)**

Region	SMEs	Other (non-SME) commercial businesses	Other non-commercial organisations	Total revenue
	(£000s)	(£000s)	(£000s)	(£000s)
	2002-03	2002-03	2002-03	2002-03
North East	1,098	3,139	2,064	6,301
North West	138	4,089	6,152	10,379
Yorkshire and the Humber	564	829	2,789	4,182
East Midlands	1,697	706	2,998	5,401
West Midlands	2,469	3,740	1,076	7,285
East of England	585	11,715	5,257	17,557
London	1,743	34,341	12,249	48,333
South East	1,287	6,443	5,412	13,142
South West	2,188	1,019	1,783	4,990
England	11,769	66,021	39,780	117,570
Northern Ireland	66	10	669	745
Scotland	611	5,215	2,723	8,549
Wales	62	253	1,630	1,945
<b>UK total</b>	<b>12,508</b>	<b>71,499</b>	<b>44,802</b>	<b>128,809</b>

**Table 3 Regeneration and development programmes**

Region	ERDF income	ESF income	UK Government regeneration funds	RDA programmes	Other regeneration grants and income from local and regional bodies	Other (£000s)	Total (£000s)	
	(£000s)	(£000s)	(£000s)	(£000s)	(£000s)	(£000s)	2002-03	2001-02
	2002-03	2002-03	2002-03	2002-03	2002-03	2002-03	2002-03	2001-02
North East	3,939	6,348	2,166	7,529	286	52	20,320	27,824
North West	15,847	5,162	443	3,687	43	641	25,823	22,666
Yorkshire and the Humber	2,384	1,545	508	2,241	705	1,118	8,501	6,624
East Midlands	1,303	1,940	83	5,042	45	0	8,413	4,918
West Midlands	2,287	1,701	1,436	12,437	623	1,937	20,421	11,806
East of England	263	4,079	276	1,383	812	0	6,813	4,401
London	1,204	2,323	368	3,039	223	589	7,746	8,116
South East	274	1,250	285	328	122	163	2,422	6,200
South West	4,620	1,572	820	2,841	447	1,045	11,345	7,331
England	32,121	25,920	6,385	38,527	3,306	5,545	111,804	99,886
Northern Ireland	39	2,249	0	0	2,504	0	4,792	4,301
Scotland	1,132	1,838	2,459	1,723	745	2,018	9,915	5,152
Wales	6,387	5,306	57	2,294	1,534	4,433	20,011	17,466
<b>UK total</b>	<b>39,679</b>	<b>35,313</b>	<b>8,901</b>	<b>42,544</b>	<b>8,089</b>	<b>11,996</b>	<b>146,522</b>	<b>126,805</b>

## 4a Disclosures and patents filed on or behalf of the HEI

Region	Number of disclosures		Number of new patent applications filled in year		Number of patents granted in year		Cumulative portfolio of active patents	
	2002-03	2001-02	2002-03	2001-02	2002-03	2001-02	2002-03	2001-02
North East	72	88	44	40	5	5	122	65
North West	238	243	67	57	93	39	257	143
Yorkshire and the Humber	138	194	62	83	17	5	267	161
East Midlands	149	135	64	45	39	15	186	118
West Midlands	427	234	81	37	15	15	191	63
East of England	294	173	107	83	14	1	278	166
London	467	456	134	224	41	51	960	456
South East	380	394	266	148	58	11	393	270
South West	106	98	98	47	14	6	265	66
England	2,271	2,015	923	764	296	148	2,919	1,508
Northern Ireland	56	46	44	17	2	5	83	31
Scotland	284	306	212	167	69	42	797	325
Wales	99	111	37	19	4	4	124	43
<b>UK total</b>	<b>2,710</b>	<b>2,478</b>	<b>1,216</b>	<b>967</b>	<b>371</b>	<b>199</b>	<b>3,923</b>	<b>1,907</b>

## 4b Licence numbers

Region	Non-software licences granted					Software only licences granted				
	SMEs	Other (non-SME) commercial businesses	Non-commercial organisations	Total number		SMEs	Other (non-SME) commercial businesses	Non-commercial organisations	Total number	
				2002-03	2001-02				2002-03	2001-02
North East	6	3	3	12	11	0	2	3	5	7
North West	13	5	1	19	21	4	2	0	6	11
Yorkshire and the Humber	12	6	0	18	16	4	0	0	4	5
East Midlands	21	14	1	36	70	8	2	0	10	7
West Midlands	37	13	1	51	30	1	5	8	14	10
East of England	26	5	2	33	25	47	16	15	78	14
London	39	43	7	89	48	14	30	10	54	67
South East	52	32	2	86	84	5	4	3	12	24
South West	27	5	45	77	38	3	1	1	5	7
England	233	126	62	421	343	86	62	40	188	152
Northern Ireland	2	0	0	2	11	0	0	0	0	0
Scotland	18	46	10	73	54	13	20	25	58	48
Wales	7	4	0	11	7	3	2	0	5	0
<b>UK total</b>	<b>260</b>	<b>176</b>	<b>72</b>	<b>507</b>	<b>415</b>	<b>102</b>	<b>84</b>	<b>65</b>	<b>251</b>	<b>200</b>

## 4c IP income

Region	Income from SMEs			Other (non-SME) commercial businesses			Income from other non-commercial organisations			Sale of shares in spin-offs (£000s)		Total revenues (including sale of shares in spin-offs) (£000s)		Total costs (£000s)	
	Non- software licences (£000s)	Software licences (£000s)	Other (£000s)	Non- software licences (£000s)	Software licences (£000s)	Other (£000s)	Non- software licences (£000s)	Software licences (£000s)	Other (£000s)	2002-03	2001-02	2002-03	2001-02	2002-03	2001-02
	2002-03	2002-03	2002-03	2002-03	2002-03	2002-03	2002-03	2002-03	2002-03	2002-03	2001-02	2002-03	2001-02	2002-03	2001-02
North East	17	3	0	156	13	0	0	3	0	150	5,500	342	5,589	245	215
North West	98	25	0	304	2	0	14	2	58	0	100	503	495	855	919
Yorkshire and the Humber	64	44	32	239	485	19	0	0	17	474	90	1,374	1,173	426	691
East Midlands	273	30	0	1,024	297	12	6	0	0	40	540	1,682	3,792	702	729
West Midlands	348	15	0	1,446	128	0	5	3	0	0	0	1,945	6,947	684	922
East of England	552	159	0	913	309	30	143	4	14	36	0	2,160	1,891	615	683
London	478	232	235	3,345	129	188	6	54	80	164	7,190	4,911	12,110	3,665	3,166
South East	654	158	78	1,833	19	0	70	4	4	9,561	70	12,381	2,922	3,236	2,893
South West	177	72	8	103	1	1	81	13	0	0	0	456	707	515	494
England	2,661	738	353	9,363	1,383	250	325	83	173	10,425	13,490	25,754	35,626	10,943	10,712
Northern Ireland	101	0	0	50	0	0	0	0	0	54	255	205	484	274	294
Scotland	129	264	0	5,664	436	2,473	5	67	0	538	10	9,576	9,944	1,603	1,653
Wales	1,230	4	2	284	24	0	0	0	0	0	12	1,544	1,354	328	493
<b>UK total</b>	<b>4,121</b>	<b>1,006</b>	<b>355</b>	<b>15,361</b>	<b>1,843</b>	<b>2,723</b>	<b>330</b>	<b>150</b>	<b>173</b>	<b>11,017</b>	<b>13,767</b>	<b>37,079</b>	<b>47,408</b>	<b>13,148</b>	<b>13,152</b>

## 4d Spin-off activity

## Spin-offs with some HEI ownership

Region	Number established		Number still active which have survived at least 3 years		Number of active firms	Estimated employment of all active firms (FTE)		Estimated turnover of all active firms (£000s)	
	2002-03	2001-02	2002-03	2001-02		2002-03	2001-02	2002-03	2001-02
North East	6	8	12	13	26	55	45	1,000	400
North West	27	25	57	43	101	848	816	33,931	20,570
Yorkshire and the Humber	20	19	67	58	103	291	310	11,017	21,749
East Midlands	20	13	33	29	58	422	388	45,492	48,752
West Midlands	17	14	18	8	41	140	72	7,684	4,939
East of England	4	10	42	36	59	1,113	913	9,003	11,577
London	29	38	82	63	164	860	901	28,490	43,601
South East	19	12	50	41	71	333	477	24,725	16,300
South West	5	11	22	34	42	156	469	6,520	6,849
England	147	150	383	325	665	4,218	4,391	167,862	174,737
Northern Ireland	6	8	31	37	49	737	704	46,000	45,000
Scotland	17	23	73	58	97	1,045	980	20,677	17,794
Wales	7	18	19	14	38	150	93	7,550	5,270
<b>UK total</b>	<b>177</b>	<b>199</b>	<b>506</b>	<b>434</b>	<b>849</b>	<b>6,150</b>	<b>6,168</b>	<b>242,089</b>	<b>242,801</b>

**Formal spin-offs, not HEI owned**

Region	Number established		Number still active which have survived at least 3 years		Number of active firms	Estimated employment of all active firms (FTE)		Estimated turnover of all active firms (£000s)	
	2002-03	2001-02	2002-03	2001-02		2002-03	2001-02	2002-03	2001-02
	North East	1	2	11		15	18	44	30
North West	1	2	0	0	1	0	5	0	0
Yorkshire and the Humber	0	0	4	2	5	65	42	1,970	1,938
East Midlands	3	1	2	6	5	0	53	0	500
West Midlands	2	3	3	3	7	5,003	5,004	0	12,000
East of England	1	1	0	0	0	2	0	100	20
London	0	0	7	9	8	350	310	75,000	75,000
South East	1	0	9	8	10	405	0	150	0
South West	2	0	4	6	7	31	104	2,163	1,450
England	11	9	40	49	61	5,900	5,548	84,216	94,908
Northern Ireland	0	0	0	0	0	0	0	0	0
Scotland	2	1	10	4	18	540	282	18,440	15,855
Wales	7	4	10	4	17	195	167	13,630	10,450
<b>UK total</b>	<b>20</b>	<b>14</b>	<b>60</b>	<b>57</b>	<b>96</b>	<b>6,635</b>	<b>5,997</b>	<b>116,286</b>	<b>121,213</b>

**Staff start-ups**

Region	Number established		Number still active which have survived at least 3 years		Number of active firms	Estimated employment of all active firms (FTE)		Estimated turnover of all active firms (£000s)	
	2002-03	2001-02	2002-03	2001-02		2002-03	2001-02	2002-03	2001-02
	North East	1	2	7		13	9	6	6
North West	3	4	10	11	13	17	84	280	3,025
Yorkshire and the Humber	5	1	5	5	7	25	33	170	170
East Midlands	0	0	0	0	0	0	0	0	0
West Midlands	7	1	9	5	13	25	21	13,260	1,910
East of England	8	6	0	21	2	1,507	981	30	250
London	4	6	7	12	16	110	102	11,411	6,706
South East	37	3	58	54	30	35	9	4,000	1,300
South West	1	7	11	12	17	25	65	1,650	5,650
England	66	30	107	133	107	1,750	1,301	31,001	19,261
Northern Ireland	0	1	4	6	4	25	30	1,500	2,000
Scotland	6	1	5	6	9	116	69	276	40
Wales	2	3	6	7	14	97	79	7,485	6,570
<b>UK total</b>	<b>74</b>	<b>35</b>	<b>122</b>	<b>152</b>	<b>134</b>	<b>1,988</b>	<b>1,479</b>	<b>40,262</b>	<b>27,871</b>

## Graduate start-ups

Region	Number established		Number still active which have survived at least 3 years		Number of active firms	Estimated employment of all active firms (FTE)		Estimated turnover of all active firms (£000s)	
	2002-03	2001-02	2002-03	2001-02	2002-03	2002-03	2001-02	2002-03	2001-02
North East	31	25	14	10	47	193	40	1,329	415
North West	26	10	35	22	68	304	85	11,225	5,000
Yorkshire and the Humber	76	46	12	1	139	235	70	6,880	1,600
East Midlands	33	33	29	30	82	156	75	1,527	110
West Midlands	17	2	24	20	41	70	60	5,287	3,170
East of England	18	33	0	31	2	2	1,470	10	0
London	44	31	7	11	78	288	221	70,890	50,350
South East	138	51	155	100	99	35	38	1,750	630
South West	3	8	2	4	3	1	8	0	60
England	386	239	278	229	559	1,284	2,067	98,898	61,335
Northern Ireland	0	2	2	2	2	15	15	1,000	1,000
Scotland	27	32	16	15	52	143	66	930	505
Wales	76	64	27	32	119	165	115	4,815	4,050
<b>UK total</b>	<b>489</b>	<b>337</b>	<b>323</b>	<b>278</b>	<b>732</b>	<b>1,607</b>	<b>2,263</b>	<b>105,643</b>	<b>66,890</b>