

Statistical bulletin

# UK government expenditure on science, engineering and technology: 2015

Science, engineering and technology (SET) expenditure by the UK government includes expenditure by government departments, Research Councils and Higher Education Funding Councils (HEFCs). It also includes the indicative UK contributions to the EU's research and development expenditure.

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# 1 . Main points

- The UK government's expenditure on science, engineering and technology (SET) continued to grow, expanding by £0.2 billion to £11.4 billion in 2015, an increase of 1.4%.
- The 2015 SET estimate of £11.4 billion consists of expenditure on research and development (R&D) of £10.2 billion, UK contributions to EU R&D expenditure of £0.9 billion and knowledge transfer of £0.3 billion.
- The UK Research Councils contributed the most to expenditure on SET in 2015 at £3.4 billion, 30% of all expenditure on SET.
- Civil departments' expenditure on SET over the long term grew by 27% from £2.5 billion in 2004 in constant prices (adjusted to remove the effects of inflation) to £3.1 billion in 2015.
- Defence expenditure on SET over the same period decreased by 39% to £1.7 billion in 2015.

## 2 . Statistician's comment

"Government spending on science, engineering and technology has been growing over time, in real terms. However, it has been falling as a share of GDP – down from over 0.8% in 2004 to 0.6% in 2015."

Daniel Groves, National Accounts and Economic Statistics, Office for National Statistics

## 3 . Things you need to know about this release

UK government expenditure on science, engineering and technology (SET) covers estimates of expenditure by government departments, Research Councils and Higher Education Funding Councils (HEFCs). The estimates are on a net expenditure basis. This is defined as in-house research and development (R&D) performed plus purchased or funding provided for R&D, less funding received for R&D. Also included are estimates of knowledge transfer and the UK's contribution to the EU's R&D budget.

SET should not be confused with the [UK gross domestic expenditure on research and development: 2015 \(GERD\)](#) statistical bulletin, published on 16 March 2017, which only includes expenditure on R&D performed "in-house", that is, by organisations themselves, by all sectors of the economy. This is explained in more detail in the [UK gross domestic expenditure on research and development Quality and Methodology Information](#).

In this statistical bulletin, R&D and related concepts follow internationally agreed standards defined by the [Organisation for Economic Co-operation and Development \(OECD\)](#), as published in the [Frascati Manual 2015](#).

The main source of estimates for this publication is the annual Government Research and Development Survey (GovERD).

Please note that £1.0 billion equals £1,000 million in this release and that all figures quoted are in current prices unless otherwise stated.

## 4 . Science, engineering and technology expenditure 2015

Expenditure on science, engineering and technology (SET) by the UK government was £11.4 billion in 2015. This was up from £11.2 billion in 2014, an increase of 1.4%. The average annual growth rate since 2004 was 2.5%.

In constant prices, the 2015 estimate increased by 0.6% since 2014 and the average annual growth rate since 2004 was 0.5%.

Total expenditure on SET represented 0.60% of gross domestic product (GDP), a decrease from 0.62% in 2014. As a percentage of GDP, the level has fluctuated between 0.60% and 0.82%, with an average estimate of 0.70% for the period 2004 to 2015.

## 5 . Research Councils account for almost a third of spending on science, engineering and technology

UK government's estimates of science, engineering and technology (SET) are categorised into expenditure by Research Councils, Higher Education Funding Councils (HEFCs) and by civil and defence departments, all of which include elements of knowledge transfer. Also included are estimates of the UK's contribution to the EU's R&D expenditure made by HM Treasury.

Figure 1 shows the contribution each sector made to the SET estimate in 2015. Almost one-third (30%) of UK government expenditure on SET was by Research Councils, with civil departments and HEFCs contributing 28% and 20% respectively. Defence expenditure and contributions to EU R&D expenditure made up the remaining 15% and 8% respectively.

**Figure 1: Composition of UK government expenditure on science, engineering and technology, 2015**

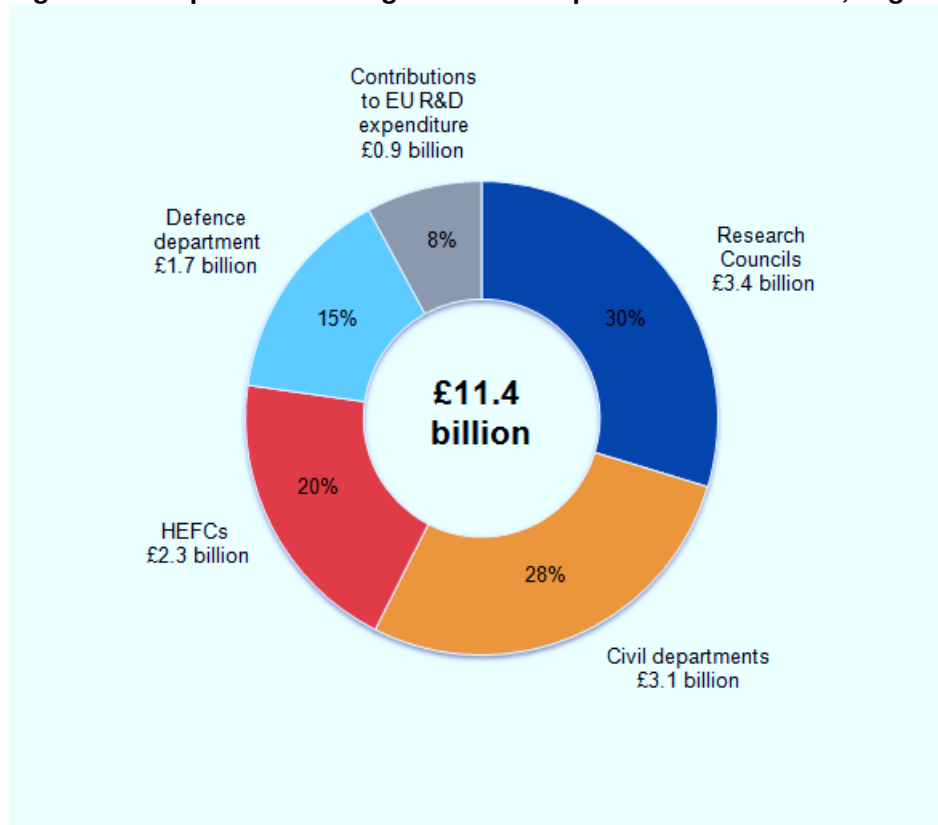
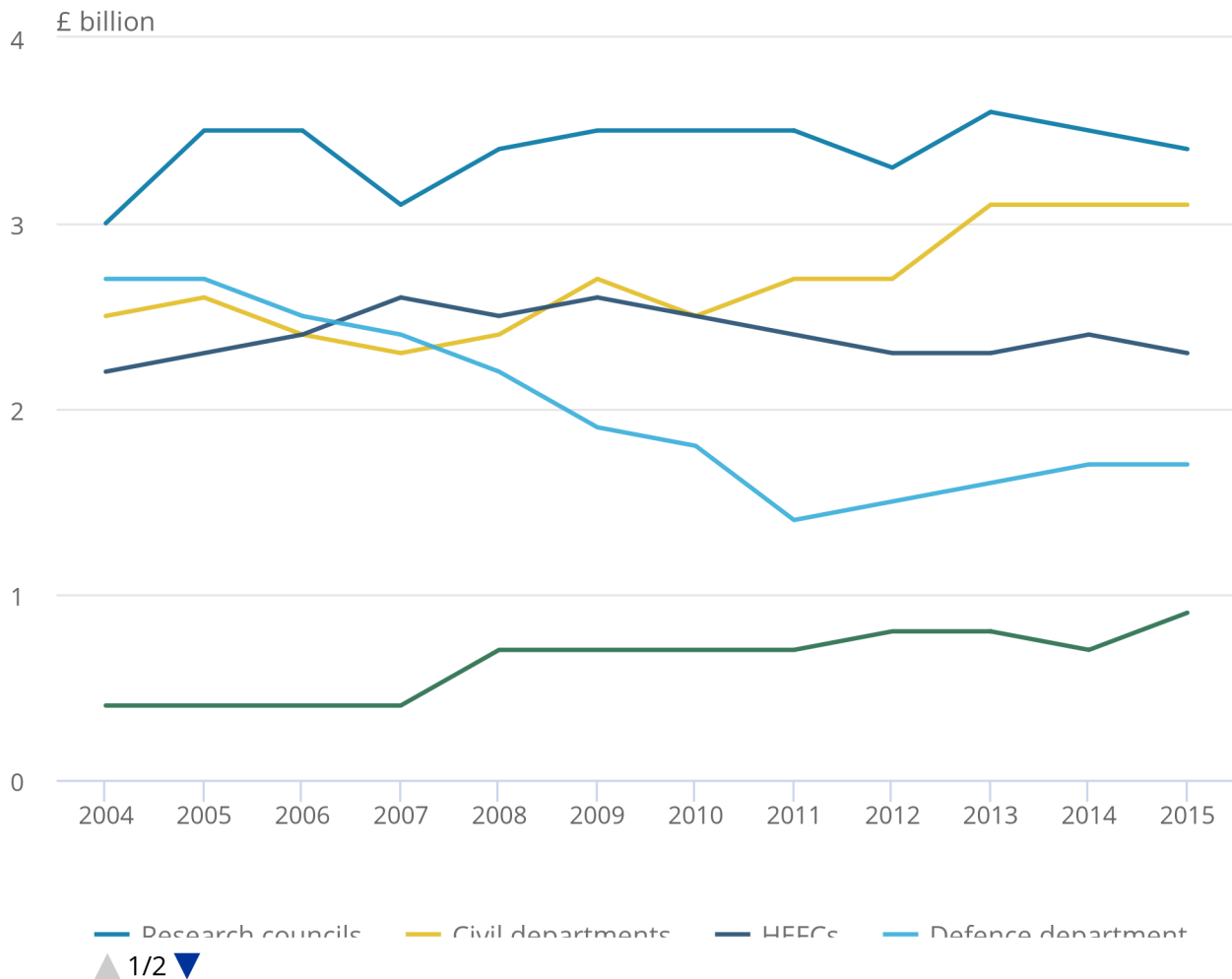


Figure 2 shows changes in SET components between 2004 and 2015 in constant prices. Defence expenditure decreased by £1.0 billion (39%) from £2.7 billion in 2004 to £1.7 billion in 2015. In contrast, over the same period there was growth in civil departments' expenditure on SET of £0.7 billion.

**Figure 2: Components of UK government expenditure on science, engineering and technology in constant prices, 2004 to 2015**

Figure 2: Components of UK government expenditure on science, engineering and technology in constant prices, 2004 to 2015



Source: Office for National Statistics

Source: Office for National Statistics

Notes:

1. HEFCs – Higher Education Funding Councils.

## 6 . Decrease in Research Councils' expenditure on science, engineering and technology

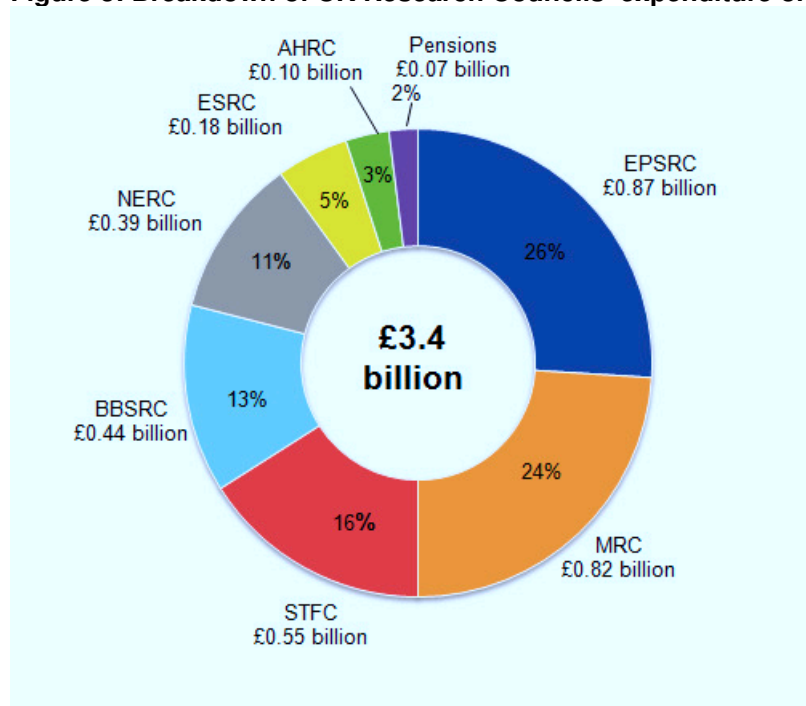
[Research Councils UK \(RCUK\)](#) is the strategic partnership of the UK's seven Research Councils. Each year the Research Councils perform research and development (R&D) covering the full spectrum of academic disciplines, from the medical and biological sciences to astronomy, physics, chemistry, engineering, social sciences, economics, environmental sciences, and the arts and humanities.

Expenditure on science, engineering and technology (SET) by Research Councils was £3.4 billion in 2015. This was down £24.7 million (1%) since 2014. In constant prices, this was a rise of £0.4 billion (15%) since 2004.

The research council with the highest expenditure on SET (£0.9 billion in 2015) continued to be the Engineering and Physical Sciences Research Council (EPSRC), representing 26% of Research Councils' SET expenditure. However, while the EPSRC saw a drop of 4%, the Medical Research Council's expenditure grew by 14% from £0.7 billion in 2014 to £0.8 billion in 2015, representing 24% of all Research Councils' expenditure on SET. The Medical Research Council also had the highest growth since 2004, in constant prices, with a growth of 74%.

The Research Councils' estimated expenditure on SET includes their pension arrangements. These pension contributions are included separately in the datasets associated with this publication and in Figure 3.

**Figure 3: Breakdown of UK Research Councils' expenditure on science, engineering and technology, 2015**

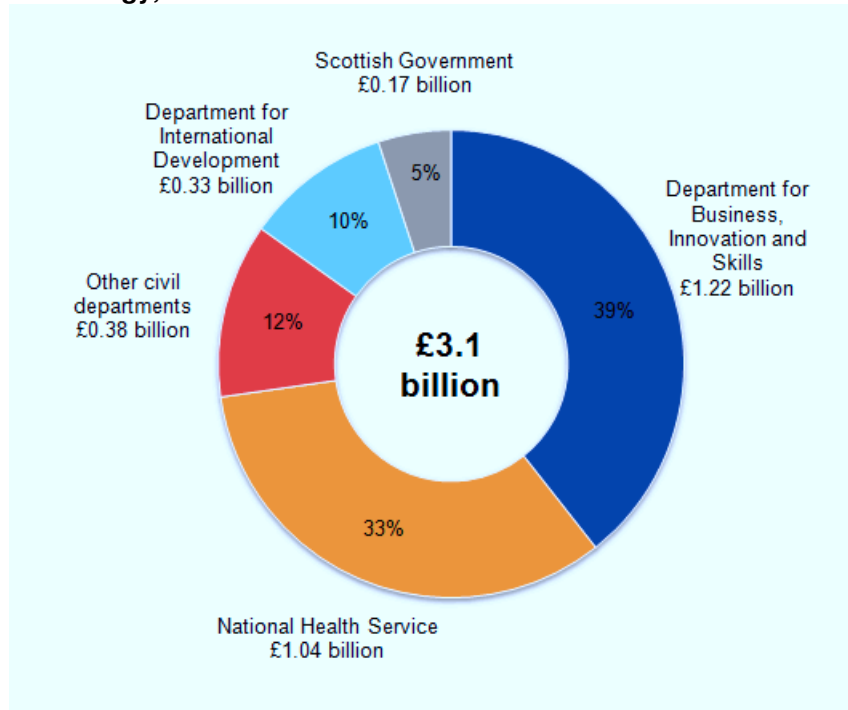


## 7 . Civil departments' expenditure on science, engineering and technology increases

The UK government owns many research institutes and laboratories that carry out research and development (R&D), which are managed by various government departments. It also uses a range of suppliers with facilities to carry out research, both inside and outside the UK.

In 2015, expenditure by civil departments on science, engineering and technology (SET) was £3.1 billion, showing growth of £86.8 million (3%) since 2014. In constant prices, the growth since 2004 was 27%. In 2015, four departments contributed £2.8 billion (88%) to the total. The Department for Business, Innovation and Skills (BIS) was the largest contributor to this, with expenditure of £1.2 billion, making up 39% of total civil departments' expenditure on SET (Figure 4). The Department for Business, Innovation and Skills was replaced by the Department for Business, Energy and Industrial Strategy in July 2016.

**Figure 4: Breakdown of UK government civil departments' expenditure on science, engineering and technology, 2015**



## 8 . Decrease in Higher Education Funding Councils' expenditure on science, engineering and technology

Higher Education Funding Councils (HEFCs) promote and fund teaching and research in higher education institutions (HEIs).

All HEIs (including universities) provide finance statistics to the [Higher Education Statistics Agency \(HESA\)](#). Grant income provided by HEFCs is used as a proxy to estimate government-funded research and development (R&D) expenditure in HEIs. This is explained in more detail in the [UK gross domestic expenditure on research and development Quality and Methodology Information](#).

In 2015, expenditure on science, engineering and technology (SET) by HEFCs was £2.3 billion, a decrease of £88.0 million (4%) since 2014. In constant prices, this was a decrease of £105.4 million (4%) since 2014 and an increase of £28.7 million (1%) since 2004. This was in contrast to the decrease from the peak of £2.6 billion in 2009 (Figure 2).

The Higher Education Funding Council for England (HEFCE) provides the most research funding as it has the highest number of HEIs. In 2015, expenditure by HEFCE on SET was £1.8 billion. This was 80% of the total HEFCs' expenditure on SET, a similar level to recent years.

## 9 . Defence expenditure on research and development decreases

Defence expenditure on science, engineering and technology (SET) was £1.7 billion in 2015, a drop of £41.8 million (2%) since 2014. In constant prices, since 2004, defence expenditure has decreased by £1.0 billion (39%) (Figure 2). While defence research fell by 23% over this period, to £0.6 billion, defence experimental development fell by 45% to £1.1 billion.

## 10 . UK more than doubles contribution to EU research and development expenditure

In 2015, the UK contributed £0.9 billion to EU research and development (R&D) expenditure. In constant prices, this was an increase of £0.5 billion (127%) more than doubling the figure in 2004. These figures were provided by HM Treasury and are broad estimates. This is because member states' contributions are not made to individual expenditure programmes, but to the EU budget as a whole. They are therefore referred to as "indicative UK contributions to EU R&D expenditure."

## 11 . Links to related statistics

Further statistics on [research and development expenditure in the UK](#) are available. Our [Business enterprise research and development, UK: 2015 statistical bulletin](#) contains estimates of research and development (R&D) performed by businesses in the UK.

Our [UK gross domestic expenditure on research and development: 2015 statistical bulletin](#) contains estimates of R&D performed by businesses, along with R&D performed by the higher education, government and private non-profit sectors, to give totals of R&D performed by organisations in the UK.

The data tables on qualified scientists and engineers in the labour force by gender ([LF1 and LF2](#)) are no longer included with the science, engineering and technology (SET) release but can be found as part of the [UK gross domestic expenditure on research and development: 2015](#) statistical bulletin.

## 12 . Quality and methodology

The [UK government expenditure on science, engineering and technology Quality and Methodology Information document](#) contains important information on:

- the strengths and limitations of the data and how they compare with related data
- users and uses of the data
- how the output was created
- the quality of the output including the accuracy of the data

### About the data

The following points should be noted when examining this bulletin or the data tables:

- note that £1.0 billion equals £1,000 million in this release
- the majority of the data series started in 2001 and constant price comparisons have been made using the start of the current dataset in 2004
- the 2013 and 2014 estimates have been revised where necessary to take account of misreporting and late returns
- estimates of launch investment loan repayments received by government from business are no longer included following a review of how these payments should be reported
- gross domestic product (GDP) deflators at market prices and money GDP used is non-seasonally adjusted; the [GDP deflators at market prices, and money GDP: December 2016 \(Quarterly National Accounts\)](#) can be viewed as a measure of general inflation in the domestic economy



## UK government expenditure on science, engineering and technology, 2015

Published 15 June 2017

[Notes to be used in conjunction with the datasets below.](#)

Please click on the links below to access the datasets:

- [1](#) UK government net expenditure on science, engineering and technology (SET) by department: current prices, 2004 to 2015
- [2](#) UK government net expenditure on science, engineering and technology (SET) by department: constant prices (2015 prices), 2004 to 2015
- [3](#) UK government net expenditure on R&D by department: current prices, 2004 to 2015
- [4](#) UK government net expenditure on R&D by department: constant prices (2015 prices), 2004 to 2015
- [5](#) UK government expenditure on knowledge transfer by department: current prices, 2004 to 2015
- [6](#) UK government expenditure on knowledge transfer by department: constant prices (2015 prices), 2004 to 2015
- [7](#) UK government net expenditure on R&D by primary purpose and department: 2015
- [8](#) UK government net expenditure on R&D by socio-economic objective, percentage share: 2007 to 2015
- [9](#) Aggregate destination of UK government gross expenditure on R&D: current prices, 2004 to 2015
- [10](#) UK government net expenditure on R&D by Frascati type of research activity: current prices, 2004 to 2015
- [11](#) UK government net expenditure on R&D by Frascati type of research activity: constant prices (2015 prices), 2004 to 2015
- [12](#) Expenditure on R&D performed in UK government by department: current prices, 2008 to 2015
- [13](#) Expenditure on R&D performed in UK government by department: constant prices (2015 prices), 2008 to 2015
- [14](#) UK government purchased or funding provided for R&D by funding and receiving organisations: 2015
- [15](#) UK government net expenditure on R&D by flow of funds and department: 2015

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The following symbols and abbreviations are used throughout these reference tables;

- denotes nil, figures unavailable or too small to display.
- † denotes earliest data revision.

There may be discrepancies between totals and the sum of their independently rounded parts.

Notes:

1. The data in these tables and the associated statistical bulletin relate to financial years.
2. There are 2 types of estimates in this release, current and constant prices. Estimates in current prices present the value of expenditure in cash terms. Constant price (real terms) estimates have been adjusted for inflation between years using the Gross Domestic Product (GDP) deflator. This allows changes in government expenditure on SET to be examined on a comparable basis over time.
3. UK government expenditure on R&D plus knowledge transfer (commonly known as SET): Tables 1 and 2.
4. Expenditure on R&D (excluding knowledge transfer): Tables 3 and 4.
5. Indicative UK contributions to the EU's R&D expenditure are included in Tables 1 to 4. The EU supports R&D programmes in member states. The UK makes a positive net contribution to the EU budget, and a proportion of this is assumed to be for R&D. However, because no specific information is available on where and how these contributions are spent, they are excluded from the remaining SET tables.
6. Knowledge transfer (including technology transfers) activities are designed to help the conveyance of ideas, research, results and skills between researchers, businesses and wider communities. These actions contribute to the dissemination and application of scientific and technical knowledge, including consultancy services, demonstration projects, and sharing information. For example developing partnerships, establishing forums for knowledge exchange, specialist training, and licensing. Knowledge transfer estimates which are included in the SET totals in Tables 1 and 2 are separately identified in Tables 5 and 6.

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Current prices

£ million

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
<b>Research Councils:</b>												
Engineering and Physical Sciences (EPSRC)	489	555	643	694	734	756	845	854	920	991	913	874
Medical (MRC)	379	416	471	494	581	634	679	672	600	790	716	817
Science and Technology Facilities (STFC) <sup>1</sup>	-	-	-	552	590	607	563	542	467	511	552	553
Biotechnology and Biological Sciences (BBSRC)	277	322	366	373	393	444	435	488	496	509	531	441
Natural Environment (NERC)	317	373	361	364	396	454	449	417	392	408	385 †	388
Economic and Social (ESRC)	105	125	144	151	162	174	182	174	170	194	195	181
Arts and Humanities (AHRC) <sup>2</sup>	-	69	82	88	94	89	92	99	97	100	102	97
Pensions <sup>12</sup>	42	15	17	25	74	38	35	35	40	38	51	69
OST - DTI <sup>3</sup>	440	578	508	-	-	-	-	-	-	-	-	-
Particle Physics and Astronomy (PPARC) <sup>1</sup>	295	334	329	-	-	-	-	-	-	-	-	-
Council for the Central Laboratory (CCLRC) <sup>1</sup>	64	84	92	-	-	-	-	-	-	-	-	-
<b>TOTAL</b>	<b>2,408</b>	<b>2,871</b>	<b>3,014</b>	<b>2,742</b>	<b>3,024</b>	<b>3,196</b>	<b>3,280</b>	<b>3,280</b>	<b>3,183</b>	<b>3,543</b>	<b>3,445 †</b>	<b>3,420</b>
<b>Higher Education Funding Councils (HEFCs):</b>												
England (HEFCE)	1,453	1,551	1,642	1,781	1,795	1,939	1,840	1,821	1,736	1,803	1,829	1,798
Scotland (SFC)	210	228	283	320	296	289	324	324	339	342 †	371	321
Wales (HEFCW)	84	84	87	88	91	94	90	82	80	86	86	82
Northern Ireland (DELNI)	57	66	74	63	65	81	75	59	57	65	60	57
<b>TOTAL</b>	<b>1,804</b>	<b>1,928</b>	<b>2,085</b>	<b>2,252</b>	<b>2,247</b>	<b>2,403</b>	<b>2,328</b>	<b>2,285</b>	<b>2,212</b>	<b>2,297 †</b>	<b>2,346</b>	<b>2,258</b>
<b>Civil Departments:</b>												
Business, Innovation and Skills (BIS) <sup>1,3,14</sup>	-	-	-	-	-	308	464	696	771	1,021	1,059 †	1,220
National Health Service (NHS) <sup>13</sup>	575	583	623	661	730	796	847	866	948	984	1,036 †	1,036
International Development (DFID)	215	265	247	151	169	237	220	236	238	272	318 †	329
Scottish Government (SG)	176	209	214	221	218	219	177	169	177	178	173 †	170
Environment, Food and Rural Affairs (DEFRA) <sup>3</sup>	273	288	299	202	198	185	157	161	144	129	101	70
Culture, Media and Sport (DCMS)	16	23	36	44	64	64	53	48	47	88	60	51
Health (DH) (excluding NHS) <sup>13</sup>	54	45	50	51	57	50	36	38	32	36	41	46
Energy and Climate Change (DECC) <sup>7</sup>	-	-	-	-	27	25	36	39	37	44	41	45
Transport (DfT) <sup>3</sup>	59	61	59	66	64	80	54	35	38	44	52	45
Home Office (HO)	58	73	51	43	46	45	48	25	20	23	22	21
Work and Pensions (DWP)	18	18	18	17	19	35	29	20	21	20	18	17
Welsh Government (WG) <sup>4</sup>	32	33	10	12	11	11	10	10	12	12	16	17
Northern Ireland Departments (NI) <sup>5</sup>	21	21	22	23	22	22	21	20	22	22	18	15
Education (DfE) <sup>6</sup>	-	-	-	35	33	31	27	13	14	14	14	14
Other departments <sup>8</sup>	41	38	42	38	38	34	31	31	26	21 †	21	11
Health and Safety Executive (HSE)	28	22	17	12	12	13	12	10	8	8	8	7
Ministry of Justice (MoJ) <sup>8</sup>	-	-	2	11	14	11	8	7	9	7	8	7
Communities and Local Government (DCLG)	29	27	30	25	28	29	16	7	9	7	7	7
Food Standards Agency (FSA)	20	17	15	14	12	11	6	7	7	8	10	5
Education and Skills (DfES) <sup>6</sup>	59	100	73	-	-	-	-	-	-	-	-	-
Business Enterprise and Regulatory Reform (BERR) <sup>3</sup>	-	-	-	2	2	-	-	-	-	-	-	-
Trade & Industry (DTI) <sup>3</sup>	322	300	265	-	-	-	-	-	-	-	-	-
Net Launch Investment <sup>14</sup>	- †	-	-	-	-	162	100	71	62	46	25	-
BIS Science <sup>3</sup>	-	-	-	420	438	83	-	-	-	-	-	-

Current prices													£ million
		2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Foreign and Commonwealth Office (FCO) <sup>11</sup>		-	-	-	-	-	6	3	-	-	-	2	-
<b>TOTAL</b>		<b>1,993 †</b>	<b>2,123</b>	<b>2,072</b>	<b>2,050</b>	<b>2,201</b>	<b>2,455</b>	<b>2,352</b>	<b>2,510</b>	<b>2,642</b>	<b>2,986</b>	<b>3,048</b>	<b>3,135</b>
Ministry of Defence (MoD) <sup>9</sup>													
of which:	Research	639	598	632	635	584	575	534	553	565	586	616	604
	Experimental Development	1,552	1,645	1,492	1,505	1,406	1,177	1,159	753	895	931	1,088	1,058
<b>TOTAL</b>		<b>2,191</b>	<b>2,243</b>	<b>2,124</b>	<b>2,139</b>	<b>1,991</b>	<b>1,752</b>	<b>1,693</b>	<b>1,306</b>	<b>1,460</b>	<b>1,516</b>	<b>1,704</b>	<b>1,662</b>
<b>DEPARTMENTAL SET TOTAL</b>		<b>8,397 †</b>	<b>9,166</b>	<b>9,295</b>	<b>9,183</b>	<b>9,462</b>	<b>9,805</b>	<b>9,653</b>	<b>9,380</b>	<b>9,498</b>	<b>10,343</b>	<b>10,543</b>	<b>10,475</b>
Indicative UK contributions to EU R&D expenditure <sup>10</sup>		325	365	374	374	593	668	647	661	751	768	688 †	910
<b>GRAND SET TOTAL</b>		<b>8,722 †</b>	<b>9,531</b>	<b>9,669</b>	<b>9,557</b>	<b>10,055</b>	<b>10,474</b>	<b>10,299</b>	<b>10,042</b>	<b>10,249</b>	<b>11,111</b>	<b>11,231</b>	<b>11,386</b>
Net Launch Investment (old methodology) <sup>14</sup>		-127	-158	-154	-154	-128	-57	-91	-108	-150	-153	-158	-

Source: Office for National Statistics

- denotes nil, figures unavailable or too small to display.

† denotes earliest data revision.

1 In April 2007, CCLRC and PPARC merged to form Science and Technology Facilities Council (STFC). In 2011, STFCs subscription for European Space Agency (ESA) transferred to BIS Space.

2 AHRC was established in April 2005.

3 From July 2007, the Department for Trade and Industry (DTI) and the Office for Science and Technology (OST) were renamed Business Enterprise and Regulatory Reform (BERR) and the Department of Innovation, Universities and Skills (DIUS) respectively. In 2009, DIUS and BERR merged to form BIS. DIUS was renamed as BIS Science and BERR renamed as BIS. A number of departments previously reporting under DIUS transferred to BIS. From 2010, BIS Science reported under BIS. From 2011 includes all UK subscriptions to the European Space Agency (ESA), and some budget transfers from DEFRA and DfT. BIS was replaced by the Department for Business, Energy & Industrial Strategy (BEIS) from July 2016.

4 NHS Wales was included from 2010 and Museum Wales included from 2011.

5 In 2011, Department of the Environment was included for the first time. This will be used as a base year going forward. No back data available.

6 From June 2007 DfES was renamed Department for Children, Schools and Families (DCSF). From May 2010 DCSF was replaced with Department for Education (DfE). In 2011, expenditure fell due to a move to drive down spend across all budgets, and reflects Ministerial priorities.

7 DECC was created in October 2008.

8 Prior to 2006, Ministry of Justice figures were included under "Other departments".

9 These data comprise elements from both the operating cost statement and the balance sheet in the Departmental Resource Accounts (DRAc). The funding received by MoD and its trading funds for expenditure on R&D are not necessarily spent on defence related R&D. The fall in 2011 net development expenditure was reported by the MoD's Defence Equipment and Support (DE&S) as a number of project teams moved from the development phase to manufacturing.

10 These indicative contributions are provided by HM Treasury.

11 Department was not surveyed prior to 2009.

12 Research Councils' pension contributions are included separately.

13 In previous publications, Department of Health (DH) included NHS, from this publication onwards DH estimates exclude NHS.

14 Estimates of launch investment loan repayments received by government from business are no longer included following a review of how these payments should be reported. These loan repayments are in relation to loans given out by BIS in previous years and therefore should not be included in current totals of R&D expenditure. The estimates of Net Launch Investment located below the Grand SET Total were prepared using the old methodology to allow for comparison.

Constant prices (2015)

£ million

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
<b>Research Councils:</b>												
Engineering and Physical Sciences (EPSRC)	604 †	668	752	792	815	828	909	906	956	1,013	920	874
Medical (MRC)	469 †	501	550	564	646	694	730	713	623	808	721	817
Science and Technology Facilities (STFC) <sup>1</sup>	-	-	-	630 †	655	664	606	575	486	522	556	553
Biotechnology and Biological Sciences (BBSRC)	342 †	387	427	426	437	487	468	517	515	521	535	441
Natural Environment (NERC)	392 †	449	422	415	439	497	483	442	408	418	387	388
Economic and Social (ESRC)	129 †	150	168	173	180	191	196	185	177	199	196	181
Arts and Humanities (AHRC) <sup>2</sup>	-	83 †	96	100	104	98	99	105	101	102	103	97
Pensions <sup>12</sup>	52 †	18	20	28	82	41	37	37	42	39	52	69
OST - DTI <sup>3</sup>	544 †	696	593	-	-	-	-	-	-	-	-	-
Particle Physics and Astronomy (PPARC) <sup>1</sup>	365 †	402	384	-	-	-	-	-	-	-	-	-
Council for the Central Laboratory (CCLRC) <sup>1</sup>	80 †	101	107	-	-	-	-	-	-	-	-	-
<b>TOTAL</b>	<b>2,976 †</b>	<b>3,456</b>	<b>3,520</b>	<b>3,128</b>	<b>3,358</b>	<b>3,500</b>	<b>3,528</b>	<b>3,480</b>	<b>3,308</b>	<b>3,622</b>	<b>3,470</b>	<b>3,420</b>
<b>Higher Education Funding Councils (HEFCs):</b>												
England (HEFCE)	1,795 †	1,867	1,918	2,031	1,993	2,124	1,979	1,932	1,804	1,843	1,843	1,798
Scotland (SFC)	260 †	274	331	365	329	317	348	344	353	350	374	321
Wales (HEFCW)	104 †	101	101	101	101	103	96	86	83	88	87	82
Northern Ireland (DELNI)	70 †	79	86	72	72	89	80	62	59	67	60	57
<b>TOTAL</b>	<b>2,230 †</b>	<b>2,321</b>	<b>2,436</b>	<b>2,568</b>	<b>2,495</b>	<b>2,632</b>	<b>2,504</b>	<b>2,424</b>	<b>2,299</b>	<b>2,348</b>	<b>2,364</b>	<b>2,258</b>
<b>Civil Departments:</b>												
Business, Innovation and Skills (BIS) <sup>1,3,14</sup>	-	-	-	-	-	337 †	499	739	801	1,043	1,067	1,220
National Health Service (NHS) <sup>13</sup>	710 †	702	728	754	810	872	911	919	985	1,006	1,043	1,036
International Development (DFID)	266 †	319	289	172	187	260	236	251	247	278	320	329
Scottish Government (SG)	218 †	252	249	252	242	240	191	180	184	181	174	170
Environment, Food and Rural Affairs (DEFRA) <sup>3</sup>	337 †	347	350	231	220	203	169	170	150	132	101	70
Culture, Media and Sport (DCMS)	19 †	28	42	50	72	70	57	51	49	90	60	51
Health (DH) (excluding NHS) <sup>13</sup>	67	54	58	59	64	55	39	41	33	37	41	46
Energy and Climate Change (DECC) <sup>7</sup>	-	-	-	-	30	27	38	42 †	39	45	42	45
Transport (DfT) <sup>3</sup>	73 †	73	69	76	71	87	58	37	40	45	52	45
Home Office (HO)	71 †	88	59	49	51	49	51	27	21	24	22	21
Work and Pensions (DWP)	22	22	21 †	19	21	38	31	22	22	20	18	17
Welsh Government (WG) <sup>4</sup>	39 †	40	11	14	12	12	11	10	13	13	16	17
Northern Ireland Departments (NI) <sup>5</sup>	26 †	25	26	26	25	24	22	21	22	22	19	15
Education (DfE) <sup>6</sup>	-	-	-	40 †	37	34	29	14	15	14	14	14
Other departments <sup>8</sup>	51 †	46	49	43	42	38	33	32	27	22	21	11
Health and Safety Executive (HSE)	34 †	26	20	14	14	14	13	11	8	8	8	7
Ministry of Justice (MoJ) <sup>8</sup>	-	-	2	13	15	12	8	7	9	7	8	7
Communities and Local Government (DCLG)	35 †	33	35	29	31	32	17	8	9	8	7	7
Food Standards Agency (FSA)	25	20 †	18	16	13	12	6	7	7	8	10	5
Education and Skills (DfES) <sup>6</sup>	73 †	121	85	-	-	-	-	-	-	-	-	-
Business Enterprise and Regulatory Reform (BERR) <sup>3</sup>	-	-	-	2	2	-	-	-	-	-	-	-
Trade & Industry (DTI) <sup>3</sup>	398 †	361	309	-	-	-	-	-	-	-	-	-
Net Launch Investment <sup>14</sup>	- †	-	-	-	-	177	108	76	64	47	25	-
BIS Science <sup>3</sup>	-	-	-	479 †	486	91	-	-	-	-	-	-

Constant prices (2015)												£ million	
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	
Foreign and Commonwealth Office (FCO) <sup>11</sup>	-	-	-	-	-	6	3	-	-	-	2	-	
<b>TOTAL</b>	<b>2,463 †</b>	<b>2,555</b>	<b>2,421</b>	<b>2,338</b>	<b>2,444</b>	<b>2,689</b>	<b>2,530</b>	<b>2,662</b>	<b>2,746</b>	<b>3,053</b>	<b>3,071</b>	<b>3,135</b>	
Ministry of Defence (MoD) <sup>9</sup>													
of which:													
Research	790 †	720	738	724	649	630	575	587	587	599	621	604	
Experimental Development	1,918 †	1,980	1,743	1,716	1,561	1,289	1,247	798	930	951	1,096	1,058	
<b>TOTAL</b>	<b>2,708 †</b>	<b>2,700</b>	<b>2,481</b>	<b>2,440</b>	<b>2,210</b>	<b>1,918</b>	<b>1,821</b>	<b>1,385</b>	<b>1,517</b>	<b>1,550</b>	<b>1,717</b>	<b>1,662</b>	
<b>DEPARTMENTAL SET TOTAL</b>	<b>10,377 †</b>	<b>11,032</b>	<b>10,858</b>	<b>10,474</b>	<b>10,507</b>	<b>10,740</b>	<b>10,383</b>	<b>9,952</b>	<b>9,869</b>	<b>10,573</b>	<b>10,621</b>	<b>10,475</b>	
Indicative UK contributions to EU R&D expenditure <sup>10</sup>	402 †	439	437	427	658	732	695	702	780	785	693	910	
<b>GRAND SET TOTAL</b>	<b>10,778 †</b>	<b>11,471</b>	<b>11,295</b>	<b>10,900</b>	<b>11,165</b>	<b>11,472</b>	<b>11,078</b>	<b>10,654</b>	<b>10,649</b>	<b>11,358</b>	<b>11,315</b>	<b>11,386</b>	
Net Launch Investment (old methodology) <sup>14</sup>	-157 †	-191	-180	-175	-142	-63	-98	-114	-156	-157	-159	-	
2015 = 100													

Source: Office for National Statistics

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
GDP deflator used to convert current prices to constant prices	80.925 †	83.085	85.604	87.677	90.059	91.298	92.968	94.259	96.238	97.825	99.262	100

- denotes nil, figures unavailable or too small to display.

† denotes earliest data revision.

Please see Table 1 for footnotes.

Current prices

£ million

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
<b>Research Councils:</b>												
Medical (MRC)	376	416	471	494	581	634	679	672	600	790	716	817
Engineering and Physical Sciences (EPSRC)	480	553	643	694	734	754	802	807	793	870	808	770
Science and Technology Facilities (STFC) <sup>1</sup>	-	-	-	548	583	599	556	535	456	502	541	541
Biotechnology and Biological Sciences (BBSRC)	275	320	364	369	383	432	421	472	478	489	513	421
Natural Environment (NERC)	296	363	351	350	381	435	442	407	378	393	369 †	373
Economic and Social (ESRC)	98	116	133	147	158	170	177	168	161	187	186	171
Arts and Humanities (AHRC) <sup>2</sup>	-	58	70	86	91	87	89	95	90	92	96	91
Pensions <sup>12</sup>	40	15	17	24	72	37	34	34	37	36	48	65
OST / DTI <sup>3</sup>	356	503	413	-	-	-	-	-	-	-	-	-
Particle Physics and Astronomy (PPARC) <sup>1</sup>	295	334	329	-	-	-	-	-	-	-	-	-
Council for the Central Laboratory (CCLRC) <sup>1</sup>	64	84	92	-	-	-	-	-	-	-	-	-
<b>TOTAL</b>	<b>2,281</b>	<b>2,763</b>	<b>2,883</b>	<b>2,714</b>	<b>2,984</b>	<b>3,148</b>	<b>3,201</b>	<b>3,189</b>	<b>2,993</b>	<b>3,359</b>	<b>3,277 †</b>	<b>3,250</b>
<b>Higher Education Funding Councils (HEFCs):</b>												
England (HEFCE)	1,453	1,551	1,642	1,781	1,795	1,939	1,840	1,821	1,736	1,803	1,829	1,798
Scotland (SFC)	210	228	283	302	276	281	299	296	312	312 †	320	285
Wales (HEFCW)	84	84	87	88	91	94	90	82	80	86	86	82
Northern Ireland (DELNI)	57	66	74	63	65	81	75	59	57	65	55	52
<b>TOTAL</b>	<b>1,804</b>	<b>1,928</b>	<b>2,085</b>	<b>2,234</b>	<b>2,227</b>	<b>2,395</b>	<b>2,303</b>	<b>2,257</b>	<b>2,185</b>	<b>2,266 †</b>	<b>2,290</b>	<b>2,218</b>
<b>Civil Departments:</b>												
Business, Innovation and Skills (BIS) <sup>1,3,14</sup>	-	-	-	-	-	266	410	646	729	981	1,023 †	1,178
National Health Service (NHS) <sup>13</sup>	575	583	623	661	730	796	847	866	948	984	1,036	1,036
International Development (DFID)	215	265	247	134	149	225	209	226	229	262	309 †	314
Scottish Government (SG)	131	137	132	137	141	154	167	158	163	164	164	161
Environment, Food and Rural Affairs (DEFRA) <sup>3</sup>	191	201	194	190	187	181	153	157	141	128	100	70
Culture, Media and Sport (DCMS)	16	23	36	39	47	46	47	42	45	79	53	46
Energy and Climate Change (DECC) <sup>7</sup>	-	-	-	-	27	25	35	39	37	44	41	44
Transport (DfT) <sup>3</sup>	48	51	57	62	60	68	53	34	38	43	51	44
Health (excluding NHS) <sup>13</sup>	54	45	50	51	57	50	35	38	32	36	40	44
Home Office (HO)	58	73	50	42	44	43	42	24	19	22	20	20
Work and Pensions (DWP)	18	18	18	17	19	35	28	20	21	20	18	17
Welsh Government (WG) <sup>4</sup>	32	33	10	12	10	10	9	8	11	11	15	16
Northern Ireland Departments (NI) <sup>5</sup>	21	21	22	22	22	21	20	19	21	21	18	15
Education (DfE) <sup>6</sup>	-	-	-	35	33	31	27	13	14	14	14	14
Other Departments <sup>8</sup>	28	25	30	36	37	33	29	30	26	20 †	20	10
Communities and Local Government (DCLG)	29	27	30	25	27	28	16	7	9	7	7	7
Health and Safety Executive (HSE)	25	19	14	12	12	13	12	10	8	8	8	7
Ministry of Justice (MoJ) <sup>8</sup>	-	-	2	10	12	9	7	7	8	7	8	7
Food Standards Agency (FSA)	20	17	15	14	11	11	5	6	7	7	9	5
Education and Skills (DfES) <sup>6</sup>	59	100	73	-	-	-	-	-	-	-	-	-
Business Enterprise and Regulatory Reform (BERR) <sup>3</sup>	-	-	-	1	1	-	-	-	-	-	-	-

Current prices													£ million
		2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Trade & Industry (DTI) <sup>3</sup>		275	243	204	-	-	-	-	-	-	-	-	-
Net Launch Investment <sup>14</sup>		- †	-	-	-	-	162	100	71	62	46	25	-
BIS Science <sup>3</sup>		-	-	-	393	408	83	-	-	-	-	-	-
Foreign and Commonwealth Office (FCO) <sup>11</sup>		-	-	-	-	-	6	3	-	-	-	2	-
<b>TOTAL</b>		<b>1,793 †</b>	<b>1,880</b>	<b>1,807</b>	<b>1,892</b>	<b>2,033</b>	<b>2,295</b>	<b>2,255</b>	<b>2,423</b>	<b>2,565</b>	<b>2,906</b>	<b>2,981</b>	<b>3,055</b>
Ministry of Defence (MoD) <sup>9</sup>													
of which:	Research	639	598	632	635	584	575	534	553	565	586	616	604
	Experimental Development	1,552	1,645	1,492	1,505	1,406	1,177	1,159	753	895	931	1,088	1,058
<b>TOTAL</b>		<b>2,191</b>	<b>2,243</b>	<b>2,124</b>	<b>2,139</b>	<b>1,991</b>	<b>1,752</b>	<b>1,693</b>	<b>1,306</b>	<b>1,460</b>	<b>1,516</b>	<b>1,704</b>	<b>1,662</b>
<b>DEPARTMENTAL R&amp;D TOTAL</b>		<b>8,069 †</b>	<b>8,814</b>	<b>8,899</b>	<b>8,979</b>	<b>9,235</b>	<b>9,590</b>	<b>9,452</b>	<b>9,174</b>	<b>9,202</b>	<b>10,048</b>	<b>10,253</b>	<b>10,185</b>
Indicative UK contributions to EU R&D expenditure <sup>10</sup>		325	365	374	374	593	668	647	661	751	768	688 †	910
<b>GRAND R&amp;D TOTAL</b>		<b>8,394 †</b>	<b>9,179</b>	<b>9,273</b>	<b>9,353</b>	<b>9,827</b>	<b>10,258</b>	<b>10,098</b>	<b>9,836</b>	<b>9,953</b>	<b>10,816</b>	<b>10,941</b>	<b>11,095</b>
Net Launch Investment (old methodology) <sup>14</sup>		-127	-158	-154	-154	-128	-57	-91	-108	-150	-153	-158	-

Source: Office for National Statistics

- denotes nil, figures unavailable or too small to display.

† denotes earliest data revision.

Please see Table 1 for footnotes.



Constant prices (2015)

£ million

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
<b>Research Councils:</b>												
Medical (MRC)	464 †	501	550	564	646	694	730	713	623	808	721	817
Engineering and Physical Sciences (EPSRC)	593 †	665	751	791	815	826	863	856	823	889	814	770
Science and Technology Facilities (STFC) <sup>1</sup>	-	-	-	625 †	648	657	598	567	473	513	545	541
Biotechnology and Biological Sciences (BBSRC)	340 †	386	425	421	426	473	453	500	496	500	517	421
Natural Environment (NERC)	366 †	437	410	399	423	477	475	432	393	402	372	373
Economic and Social (ESRC)	121 †	140	156	168	176	186	191	178	168	191	187	171
Arts and Humanities (AHRC) <sup>2</sup>	-	70 †	82	98	101	95	96	101	94	94	97	91
Pensions <sup>12</sup>	49 †	18	20	28	80	41	37	36	38	36	48	65
OST / DTI <sup>3</sup>	440 †	605	483	-	-	-	-	-	-	-	-	-
Particle Physics and Astronomy (PPARC) <sup>1</sup>	365 †	402	384	-	-	-	-	-	-	-	-	-
Council for the Central Laboratory (CCLRC) <sup>1</sup>	80 †	101	107	-	-	-	-	-	-	-	-	-
<b>TOTAL</b>	<b>2818 †</b>	<b>3325</b>	<b>3368</b>	<b>3095</b>	<b>3313</b>	<b>3448</b>	<b>3443</b>	<b>3383</b>	<b>3109</b>	<b>3433</b>	<b>3302</b>	<b>3250</b>
<b>Higher Education Funding Councils (HEFCs):</b>												
England (HEFCE)	1,795 †	1,867	1,918	2,031	1,993	2,124	1,979	1,932	1,804	1,843	1,843	1,798
Scotland (SFC)	260 †	274	331	344	306	308	321	314	324	319	323	285
Wales (HEFCW)	104 †	101	101	101	101	103	96	86	83	88	87	82
Northern Ireland (DELNI)	70 †	79	86	72	72	89	80	62	59	67	55	52
<b>TOTAL</b>	<b>2,230 †</b>	<b>2,321</b>	<b>2,436</b>	<b>2,548</b>	<b>2,473</b>	<b>2,623</b>	<b>2,477</b>	<b>2,395</b>	<b>2,270</b>	<b>2,317</b>	<b>2,307</b>	<b>2,218</b>
<b>Civil Departments:</b>												
Business, Innovation and Skills (BIS) <sup>1,3,14</sup>	-	-	-	-	-	291 †	441	686	757	1,002	1,031	1,178
National Health Service (NHS) <sup>13</sup>	710 †	702	728	754	810	872	911	919	985	1,006	1,043	1,036
International Development (DFID)	266 †	319	289	152	166	247	224	240	238	268	311	314
Scottish Government (SG)	162 †	165	154	156	156	169	179	168	169	168	165	161
Environment, Food and Rural Affairs (DEFRA) <sup>3</sup>	236 †	241	227	216	208	199	165	167	146	131	101	70
Culture, Media and Sport (DCMS)	19 †	28	42	44	52	50	50	44	47	81	53	46
Energy and Climate Change (DECC) <sup>7</sup>	-	-	-	-	30	27	38	41	38	45	41	44
Transport (DfT) <sup>3</sup>	60 †	61	67	70	67	74	57	37	39	44	52	44
Health (DH) (excluding NHS) <sup>13</sup>	67 †	54	58	58	63	54	38	40	33	36	41	44
Home Office (HO)	71 †	88	59	48	49	48	46	26	20	23	21	20
Work and Pensions (DWP)	22	22	21 †	19	21	38	31	21	22	20	18	17
Welsh Government (WG) <sup>4</sup>	39 †	40	11	14	11	11	10	9	11	12	15	16
Northern Ireland Departments (NI) <sup>5</sup>	26	25	25 †	25	24	23	21	20	22	21	18	15
Education (DfE) <sup>6</sup>	-	-	-	40 †	37	34	29	14	15	14	14	14
Other Departments <sup>8</sup>	35 †	31	35	41	41	37	32	31	27	21	20	10
Communities and Local Government (DCLG)	35 †	33	35	29	30	31	17	8	9	8	7	7
Health and Safety Executive (HSE)	31	22 †	16	14	14	14	13	11	8	8	8	7
Ministry of Justice (MoJ) <sup>8</sup>	-	-	2	11 †	14	10	7	7	8	7	8	7
Food Standards Agency (FSA)	25	20 †	18	16	13	12	6	6	7	7	10	5
Education and Skills (DfES) <sup>6</sup>	73 †	121	85	-	-	-	-	-	-	-	-	-
Business Enterprise and Regulatory Reform (BERR) <sup>3</sup>	-	-	-	1	1	-	-	-	-	-	-	-
Trade & Industry (DTI) <sup>3</sup>	340 †	292	238	-	-	-	-	-	-	-	-	-
Net Launch Investment <sup>14</sup>	- †	-	-	-	-	177	108	76	64	47	25	-
BIS Science <sup>3</sup>	-	-	-	448 †	453	91	-	-	-	-	-	-

Constant prices (2015)												£ million	
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	
Foreign and Commonwealth Office (FCO) <sup>11</sup>	-	-	-	-	-	6	3	-	-	-	2	-	
<b>TOTAL</b>	<b>2,216 †</b>	<b>2,262</b>	<b>2,110</b>	<b>2,158</b>	<b>2,258</b>	<b>2,514</b>	<b>2,425</b>	<b>2,570</b>	<b>2,665</b>	<b>2,971</b>	<b>3,003</b>	<b>3,055</b>	
Ministry of Defence (MoD) <sup>9</sup>													
of which:													
Research	790 †	720	738	724	649	630	575	587	587	599	621	604	
Experimental Development	1,918 †	1,980	1,743	1,716	1,561	1,289	1,247	798	930	951	1,096	1,058	
<b>TOTAL</b>	<b>2,708 †</b>	<b>2,700</b>	<b>2,481</b>	<b>2,440</b>	<b>2,210</b>	<b>1,918</b>	<b>1,821</b>	<b>1,385</b>	<b>1,517</b>	<b>1,550</b>	<b>1,717</b>	<b>1,662</b>	
<b>DEPARTMENTAL R&amp;D TOTAL</b>	<b>9,971 †</b>	<b>10,609</b>	<b>10,396</b>	<b>10,241</b>	<b>10,254</b>	<b>10,504</b>	<b>10,166</b>	<b>9,733</b>	<b>9,562</b>	<b>10,271</b>	<b>10,329</b>	<b>10,185</b>	
Indicative UK contributions to EU R&D expenditure <sup>10</sup>	402 †	439	437	427	658	732	695	702	780	785	693	910	
<b>GRAND R&amp;D TOTAL</b>	<b>10,373 †</b>	<b>11,048</b>	<b>10,833</b>	<b>10,667</b>	<b>10,912</b>	<b>11,236</b>	<b>10,862</b>	<b>10,435</b>	<b>10,342</b>	<b>11,057</b>	<b>11,022</b>	<b>11,095</b>	
Net Launch Investment (old methodology) <sup>14</sup>	-157 †	-191	-180	-175	-142	-63	-98	-114	-156	-157	-159	-	

2015 = 100

Source: Office for National Statistics

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
GDP deflator used to convert current prices to constant prices	80.925 †	83.085	85.604	87.677	90.059	91.298	92.968	94.259	96.238	97.825	99.262	100

- denotes nil, figures unavailable or too small to display.

† denotes earliest data revision.

Please see Table 1 for footnotes.

Current prices

£ million

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
<b>Research Councils:</b>												
Engineering and Physical Sciences (EPSRC)	9	2	1	1	-	1	43	47	128	121	105	104
Biotechnology and Biological Sciences (BBSRC)	1	1	2	4	10	13	13	16	18	20	17	19
Natural Environment (NERC)	21	10	11	14	15	19	7	9	14	15	15	16
Science and Technology Facilities (STFC) <sup>1</sup>	-	-	-	4	7	7	8	7	12	9	12	12
Economic and Social (ESRC)	7	9	10	4	4	4	5	6	9	8	9	9
Arts and Humanities (AHRC) <sup>2</sup>	-	11	11	2	3	3	3	4	7	8	6	6
Pensions <sup>11</sup>	3	-	-	-	1	1	-	1	3	3	3	5
OST - DTI <sup>3</sup>	84	75	95	-	-	-	-	-	-	-	-	-
Medical (MRC)	4	-	-	-	-	-	-	-	-	-	-	-
Particle Physics and Astronomy (PPARC) <sup>1</sup>	-	-	-	-	-	-	-	-	-	-	-	-
Council for the Central Laboratory (CCLRC) <sup>1</sup>	-	-	-	-	-	-	-	-	-	-	-	-
<b>TOTAL</b>	<b>128</b>	<b>108</b>	<b>130</b>	<b>29</b>	<b>40</b>	<b>47</b>	<b>79</b>	<b>91</b>	<b>191</b>	<b>184</b>	<b>167</b>	<b>170</b>
<b>Higher Education Funding Councils (HEFCs):</b>												
Scotland (SFC)	-	-	-	18	21	8	25	28	28	31	51	35
Northern Ireland (DELNI)	-	-	-	-	-	-	-	-	-	-	5	5
England (HEFCE)	-	-	-	-	-	-	-	-	-	-	-	-
Wales (HEFCW)	-	-	-	-	-	-	-	-	-	-	-	-
<b>TOTAL</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>18</b>	<b>21</b>	<b>8</b>	<b>25</b>	<b>28</b>	<b>28</b>	<b>31</b>	<b>56</b>	<b>41</b>
<b>Civil Departments:</b>												
Business, Innovation and Skills (BIS) <sup>1,3</sup>	-	-	-	-	-	42	54	50	42	40	36	43
International Development (DFID)	-	-	-	18	19	12	11	10	9	10	9	15
Scottish Government (SG)	45	72	81	84	77	65	11	11	14	13	8	9
Culture, Media and Sport (DCMS)	-	-	-	5	18	18	6	6	2	9	7	5
Health (DH) (excluding NHS) <sup>12</sup>	-	-	-	1	1	1	-	-	1	-	-	2
Home Office (HO)	-	-	-	1	2	1	5	1	1	1	1	1
Other Departments <sup>8</sup>	13	13	13	1	1	1	1	1	1	1	1	1
Transport (DfT) <sup>3</sup>	11	10	2	5	4	12	1	1	1	1	1	1
Northern Ireland Departments (NI) <sup>5</sup>	-	-	-	1	1	1	1	1	1	1	1	1
Environment, Food and Rural Affairs (DEFRA) <sup>3</sup>	81	88	105	12	11	4	4	3	3	1	1	-
Ministry of Justice (MoJ) <sup>8</sup>	-	-	-	1	1	2	1	-	-	-	-	-
Health and Safety Executive (HSE)	3	3	3	-	-	-	-	-	-	-	-	-
Energy and Climate Change (DECC) <sup>7</sup>	-	-	-	-	-	-	-	-	-	-	-	-
Food Standards Agency (FSA)	-	-	-	-	-	-	-	-	-	1	-	-
Welsh Government (WG) <sup>4</sup>	-	-	-	-	1	1	1	1	1	1	1	-
Education and Skills (DfES) <sup>6</sup>	-	-	-	-	-	-	-	-	-	-	-	-
Education (DfE) <sup>6</sup>	-	-	-	-	-	-	-	-	-	-	-	-
Communities and Local Government (DCLG)	-	-	-	-	-	-	-	-	-	-	-	-
National Health Service (NHS) <sup>12</sup>	-	-	-	-	-	-	-	-	-	-	-	-
Work and Pensions (DWP)	-	-	-	-	-	-	-	-	-	-	-	-
Business Enterprise and Regulatory Reform (BERR) <sup>3</sup>	-	-	-	1	1	-	-	-	-	-	-	-

Current prices	£ million											
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Trade & Industry (DTI) <sup>3</sup>	47	57	61	-	-	-	-	-	-	-	-	-
Net Launch Investment	-	-	-	-	-	-	-	-	-	-	-	-
BIS Science <sup>3</sup>	-	-	-	27	30	-	-	-	-	-	-	-
Foreign and Commonwealth Office (FCO) <sup>10</sup>	-	-	-	-	-	-	-	-	-	-	-	-
<b>TOTAL</b>	<b>200</b>	<b>243</b>	<b>266</b>	<b>158</b>	<b>167</b>	<b>160</b>	<b>97</b>	<b>87</b>	<b>77</b>	<b>80</b>	<b>67</b>	<b>80</b>
Ministry of Defence (MoD) <sup>9</sup>	-	-	-	-	-	-	-	-	-	-	-	-
<b>GRAND TOTAL</b>	<b>328</b>	<b>352</b>	<b>396</b>	<b>205</b>	<b>228</b>	<b>215</b>	<b>201</b>	<b>206</b>	<b>296</b>	<b>295</b>	<b>290</b>	<b>291</b>

Source: Office for National Statistics

- denotes nil, figures unavailable or too small to display.

† denotes earliest data revision.

1 In April 2007, CCLRC and PPARC merged to form Science and Technology Facilities Council (STFC). In 2011, STFCs subscription for European Space Agency (ESA) transferred to BIS Space.

2 AHRC was established in April 2005.

3 From July 2007, the Department for Trade and Industry (DTI) and the Office for Science and Technology (OST) were renamed Business Enterprise and Regulatory Reform (BERR) and the Department of Innovation, Universities and Skills (DIUS) respectively. In 2009, DIUS and BERR merged to form BIS. DIUS was renamed as BIS Science and BERR renamed as BIS. A number of departments previously reporting under DIUS transferred to BIS. From 2010, BIS Science reported under BIS. From 2011 includes all UK subscriptions to the European Space Agency (ESA), and some budget transfers from DEFRA and DfT. BIS was replaced by the Department for Business, Energy & Industrial Strategy (BEIS) from July 2016.

4 NHS Wales was included from 2010 and Museum Wales included from 2011.

5 In 2011, Department of the Environment was included for the first time. This will be used as a base year going forward. No back data available.

6 From June 2007 DfES was renamed Department for Children, Schools and Families (DCSF). From May 2010 DCSF was replaced with Department for Education (DfE). In 2011, expenditure fell due to a move to drive down spend across all budgets, and reflects Ministerial priorities.

7 DECC was created in October 2008.

8 Prior to 2006, Ministry of Justice figures were included under "Other departments".

9 These data comprise elements from both the operating cost statement and the balance sheet in the Departmental Resource Accounts (DRAc). The funding received by MoD and its trading funds for expenditure on R&D are not necessarily spent on defence related R&D. The fall in 2011 net development expenditure was reported by the MoD's Defence Equipment and Support (DE&S) as a number of project teams moved from the development phase to manufacturing.

10 Department was not surveyed prior to 2009.

11 Research Councils' pension contributions are included separately.

12 In previous publications, Department of Health (DH) included NHS, from this publication onwards DH estimates exclude NHS.

Constant prices (2015)

£ million

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
<b>Research Councils:</b>												
Engineering and Physical Sciences (EPSRC)	11	3	1	1	-	1	46	50	133 †	124	106	104
Biotechnology and Biological Sciences (BBSRC)	2	2	2 †	5	11	14	14	17	19	20	18	19
Natural Environment (NERC)	26 †	12	12	16	17	21	8	10	15	15	16	16
Science and Technology Facilities (STFC) <sup>1</sup>	-	-	-	5	8	8	8	8	12	9	12	12
Economic and Social (ESRC)	8	10 †	12	5	4	5	5	7	9	8	9	9
Arts and Humanities (AHRC) <sup>2</sup>	-	13 †	13	2	3	3	3	4	7	9	6	6
Pensions <sup>11</sup>	3	-	-	-	1	1	1	1	3	3	3	5
OST - DTI <sup>3</sup>	104 †	91	111	-	-	-	-	-	-	-	-	-
Medical (MRC)	5	-	-	-	-	-	-	-	-	-	-	-
Particle Physics and Astronomy (PPARC) <sup>1</sup>	-	-	-	-	-	-	-	-	-	-	-	-
Council for the Central Laboratory (CCLRC) <sup>1</sup>	-	-	-	-	-	-	-	-	-	-	-	-
<b>TOTAL</b>	<b>158 †</b>	<b>131</b>	<b>152</b>	<b>33</b>	<b>44</b>	<b>52</b>	<b>85</b>	<b>97</b>	<b>198</b>	<b>188</b>	<b>168</b>	<b>170</b>
<b>Higher Education Funding Councils (HEFCs):</b>												
Scotland (SFC)	-	-	-	20 †	23	9	27	29	29	31	51	35
Northern Ireland (DELNI)	-	-	-	-	-	-	-	-	-	-	5	5
England (HEFCE)	-	-	-	-	-	-	-	-	-	-	-	-
Wales (HEFCW)	-	-	-	-	-	-	-	-	-	-	-	-
<b>TOTAL</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>20 †</b>	<b>23</b>	<b>9</b>	<b>27</b>	<b>29</b>	<b>29</b>	<b>31</b>	<b>56</b>	<b>41</b>
<b>Civil Departments:</b>												
Business, Innovation and Skills (BIS) <sup>1,3</sup>	-	-	-	-	-	46 †	58	53	44	41	37	43
International Development (DFID)	-	-	-	20	22	13	12	11	9	10	9	15
Scottish Government (SG)	56 †	87	95	96	86	71	12	12	15	13	9	9
Culture, Media and Sport (DCMS)	-	-	-	6	20	20	7	6	3	9	7	5
Health (DH) (excluding NHS) <sup>12</sup>	-	-	-	1	1	1	1	-	1	-	-	2
Home Office (HO)	-	-	-	1	2	1	6	1	1	1	1	1
Other Departments <sup>8</sup>	16	15 †	15	1	1	1	1	1	1	1	1	1
Transport (DfT) <sup>3</sup>	13	12	2	5	4	13	1	1	1	1	1	1
Northern Ireland Departments (NI) <sup>5</sup>	-	-	-	1	1	1	1	1	1	1	1	1
Environment, Food and Rural Affairs (DEFRA) <sup>3</sup>	101 †	105	123	14	12	4	4	4	4	1	1	-
Ministry of Justice (MoJ) <sup>8</sup>	-	-	-	1	1	2	1	-	-	-	-	-
Health and Safety Executive (HSE)	4	4	4	-	-	-	-	-	-	-	-	-
Energy and Climate Change (DECC) <sup>7</sup>	-	-	-	-	-	-	-	-	-	-	-	-
Food Standards Agency (FSA)	-	-	-	-	1	-	-	1	-	1	-	-
Welsh Government (WG) <sup>4</sup>	-	-	-	-	1	1	1	1	1	1	1	-
Education and Skills (DfES) <sup>6</sup>	-	-	-	-	-	-	-	-	-	-	-	-
Education (DfE) <sup>6</sup>	-	-	-	-	-	-	-	-	-	-	-	-
Communities and Local Government (DCLG)	-	-	-	1	1	-	-	-	-	-	-	-
National Health Service (NHS) <sup>12</sup>	-	-	-	-	-	-	-	-	-	-	-	-
Work and Pensions (DWP)	-	-	-	-	-	-	-	-	-	-	-	-
Business Enterprise and Regulatory Reform (BERR) <sup>3</sup>	-	-	-	1	1	-	-	-	-	-	-	-

Constant prices (2015)

£ million

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Trade & Industry (DTI) <sup>3</sup>	58 †	69	71	-	-	-	-	-	-	-	-	-
Net Launch Investment	-	-	-	-	-	-	-	-	-	-	-	-
BIS Science <sup>3</sup>	-	-	-	31	33	-	-	-	-	-	-	-
Foreign and Commonwealth Office (FCO) <sup>10</sup>	-	-	-	-	-	-	-	-	-	-	-	-
<b>TOTAL</b>	<b>248 †</b>	<b>293</b>	<b>310</b>	<b>180</b>	<b>186</b>	<b>175</b>	<b>104</b>	<b>92</b>	<b>80</b>	<b>82</b>	<b>68</b>	<b>80</b>
Ministry of Defence (MoD) <sup>9</sup>	-	-	-	-	-	-	-	-	-	-	-	-
<b>GRAND TOTAL</b>	<b>405 †</b>	<b>423</b>	<b>462</b>	<b>233</b>	<b>253</b>	<b>236</b>	<b>216</b>	<b>219</b>	<b>307</b>	<b>301</b>	<b>292</b>	<b>291</b>

2015 = 100

Source: Office for National Statistics

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
GDP deflator used to convert current prices to constant prices	80.925 †	83.085	85.604	87.677	90.059	91.298	92.968	94.259	96.238	97.825	99.262	100

- denotes nil, figures unavailable or too small to display.

† denotes earliest data revision.

Please see Table 5 for footnotes.

	£ million				
	General Research	Government Services	Policy Research	Technology Research	Total R&D
<b>Research Councils:</b>					
Medical (MRC)	601	111	21	85	817
Engineering and Physical Sciences (EPSRC)	219	-	-	551	770
Science and Technology Facilities (STFC)	465	-	-	76	541
Biotechnology and Biological Sciences (BBSRC)	398	-	-	23	421
Natural Environment (NERC)	268	7	69	28	373
Economic and Social (ESRC)	87	-	84	-	171
Arts and Humanities (AHRC)	91	-	-	-	91
<b>TOTAL<sup>1</sup></b>	<b>2129</b>	<b>119</b>	<b>175</b>	<b>763</b>	<b>3185</b>
<b>Higher Education Funding Councils (HEFCs):</b>					
England (HEFCE)	1,798	-	-	-	1,798
Scotland (SFC)	285	-	-	-	285
Wales (HEFCW)	82	-	-	-	82
Northern Ireland (DELNI)	52	-	-	-	52
<b>TOTAL</b>	<b>2,218</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2,218</b>
<b>Civil Departments:</b>					
Business, Innovation and Skills (BIS) <sup>2,4,5</sup>	128	-	10	1,039	1,178
National Health Service (NHS) <sup>3</sup>	1,036	-	-	-	1,036
International Development (DFID)	-	-	188	126	314
Scottish Government (SG)	71	4	54	32	161
Environment, Food and Rural Affairs (DEFRA)	11	17	42	1	70
Culture, Media and Sport (DCMS)	23	2	20	-	46
Energy and Climate Change (DECC)	23	7	6	9	44
Transport (DfT)	-	-	19	25	44
Health (excluding NHS) <sup>3</sup>	-	10	34	-	44
Home Office (HO)	-	8	12	-	20
Work and Pensions (DWP)	-	-	17	-	17
WG (formerly WO and WAG)	-	8	7	1	16
Northern Ireland Departments (NI)	10	2	3	-	15
Education (DfE)	-	-	14	-	14
Other Departments	-	3	5	3	10
Communities and Local Government (DCLG)	-	-	7	-	7
Health and Safety Executive (HSE)	-	-	7	-	7
Ministry of Justice (MoJ)	-	4	3	-	7
Food Standards Agency (FSA)	-	-	5	-	5
Foreign and Commonwealth Office (FCO)	-	-	-	-	-
<b>TOTAL</b>	<b>1,303</b>	<b>64</b>	<b>452</b>	<b>1,236</b>	<b>3,055</b>
Ministry of Defence (MoD)	-	1,662	-	-	1,662
<b>GRAND TOTAL<sup>1</sup></b>	<b>5,650</b>	<b>1,845</b>	<b>626</b>	<b>1,999</b>	<b>10,120</b>

Source: Office for National Statistics

- denotes nil, figures unavailable or too small to display.

1 For the purpose of this analysis Research Councils expenditure for Pensions have been excluded as they cannot be attributed to type of research.

2 Please note for the purpose of this analysis Launch Investment is not shown separately.

3 In previous publications, Department of Health (DH) included NHS, from this publication onwards DH estimates exclude NHS.

4 Estimates of launch investment loan repayments received by government from business are no longer included following a review of how these payments should be reported. These loan repayments are in relation to loans given out in previous years and therefore should not be included in current totals of R&amp;D expenditure.

5 BIS was replaced by the Department for Business, Energy &amp; Industrial Strategy (BEIS) from July 2016.

Current prices

£ million

	2007	2008	2009	2010	2011	2012	2013	2014	2015
<b>TOTAL</b>	<b>8,979</b> †	<b>9,235</b>	<b>9,590</b>	<b>9,452</b>	<b>9,174</b>	<b>9,202</b>	<b>10,048</b>	<b>10,253</b>	<b>10,185</b>
	2007	2008	2009	2010	2011	2012	2013	2014	2015
<b>Per cent</b>									
<b>TOTAL</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>
Health	16	18	19	20	21	21	22	22	23
General advancement of knowledge: R&D financed from General University Funds	25	24	25	24	25	24	23	22	22
Defence	24	22	18	18	14	16	15	17	16
General advancement of knowledge: R&D financed from other sources	17	18	16	18	13	13	13	12	12
Exploration and exploitation of the earth	3	3	3	3	3	3	3	4	4
Transport, telecommunication, other infrastructure	1	1	1	1	3	3	3	4	4
Industrial production and technology	2	2	4	3	4	3	4	4	4
Agriculture	3	3	4	3	4	4	4	3	3
Exploration and exploitation of space	2	2	2	2	3	3	4	3	3
Political and social systems, structures and processes	1	2	2	2	1	3	3	3	3
Energy	1	1	1	1	2	2	2	2	2
Environment	2	3	3	3	3	3	3	2	2
Culture, recreation, religion and mass media	2	2	2	2	2	1	1	1	1
Education	1	1	1	1	-	-	-	-	-

Source: Office for National Statistics

- denotes nil, figures unavailable or too small to display.

† denotes earliest data revision.



Current prices

£ million

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
<b>GROSS EXPENDITURE<sup>1</sup></b>	<b>9,140</b> †	<b>9,903</b>	<b>10,042</b>	<b>10,189</b>	<b>10,519</b>	<b>10,960</b>	<b>10,887</b>	<b>10,545</b>	<b>10,633</b>	<b>11,555</b>	<b>11,796</b>	<b>11,692</b>
of which:												
Within government departments <sup>2</sup>	2,864	2,998	3,044	3,057	3,197	3,365	3,406	3,307	3,275	3,428	3,299	3,189
Higher Education Institutions	3,400	3,868	4,146	4,136	4,366	4,661	4,608	4,631	4,472	4,764	4,870	4,872
Private Industry/Public corporations	2,058	2,225	2,124	2,080	1,783	1,727	1,935	1,535	1,841	2,081	2,299	2,195
Overseas	648	609	531	705	946	916	676	720	688	750	825	904
Others	170	203	197	211	228	290	262	353	357	532	503	532
Less funding received <sup>3</sup>	1,071	1,089	1,143	1,210	1,285	1,370	1,436	1,371	1,431	1,507	1,543	1,508
<b>TOTAL NET EXPENDITURE</b>	<b>8,069</b> †	<b>8,814</b>	<b>8,899</b>	<b>8,979</b>	<b>9,235</b>	<b>9,590</b>	<b>9,451</b>	<b>9,174</b>	<b>9,202</b>	<b>10,048</b>	<b>10,253</b>	<b>10,185</b>
<b>GROSS CIVIL EXPENDITURE<sup>1</sup></b>												
of which:	<b>6,880</b> †	<b>7,585</b>	<b>7,830</b>	<b>7,968</b>	<b>8,446</b>	<b>9,121</b>	<b>9,106</b>	<b>9,197</b>	<b>9,129</b>	<b>9,995</b>	<b>10,047</b>	<b>9,984</b>
Within government departments <sup>2</sup>	2,502	2,627	2,683	2,778	2,927	3,073	3,179	3,144	3,122	3,258	3,132	3,008
Higher Education Institutions	3,384	3,863	4,132	4,131	4,361	4,657	4,604	4,628	4,472	4,763	4,868	4,871
Private Industry/Public corporations	427	416	372	428	430	609	576	493	595	772	835	896
Overseas	397	476	446	429	500	493	485	580	584	669	709	677
Others	169	203	197	203	228	290	261	353	357	532	503	532
Less funding received <sup>3</sup>	1,002	1,015	1,055	1,129	1,202	1,283	1,348	1,329	1,387	1,463	1,498	1,462
<b>CIVIL NET EXPENDITURE</b>	<b>5,878</b> †	<b>6,571</b>	<b>6,775</b>	<b>6,840</b>	<b>7,244</b>	<b>7,838</b>	<b>7,758</b>	<b>7,869</b>	<b>7,742</b>	<b>8,532</b>	<b>8,549</b>	<b>8,523</b>
<b>GROSS DEFENCE EXPENDITURE<sup>1</sup></b>												
of which:	<b>2,260</b>	<b>2,318</b>	<b>2,212</b>	<b>2,220</b>	<b>2,074</b>	<b>1,839</b>	<b>1,782</b>	<b>1,348</b>	<b>1,504</b>	<b>1,560</b>	<b>1,749</b>	<b>1,708</b>
Within government departments <sup>2</sup>	362	371	361	279	269	293	227	163	154	169	167	181
Higher Education Institutions	16	5	13	5	5	5	4	3	-	1	2	1
Private Industry/Public corporations	1,631	1,809	1,752	1,652	1,353	1,118	1,359	1,042	1,246	1,309	1,464	1,299
Overseas	251	132	85	276	446	423	191	140	104	81	116	227
Others	-	-	-	8	1	-	1	-	-	-	-	-
Less funding received <sup>3</sup>	69	75	88	81	83	87	89	42	44	44	45	46
<b>DEFENCE NET EXPENDITURE</b>	<b>2,191</b>	<b>2,243</b>	<b>2,124</b>	<b>2,139</b>	<b>1,991</b>	<b>1,752</b>	<b>1,693</b>	<b>1,306</b>	<b>1,460</b>	<b>1,516</b>	<b>1,704</b>	<b>1,662</b>

Source: Office for National Statistics

- denotes nil, figures unavailable or too small to display.

† denotes earliest data revision.

1 Gross expenditure is the amount of R&amp;D expenditure within and outside government departments. Civil includes Research Council Institutes and Local Authorities.

2 Includes Research Council Institutes and Local Authorities.

3 Funding received for R&amp;D from outside the reporting department.

Current prices

£ million

		2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
<b>RESEARCH COUNCILS R&amp;D<sup>1</sup></b>													
Basic	- pure	766	1,019	953	739	817	808	790	746	718	755	776 †	753
	- oriented	747	853	980	1,010	1,114	1,206	1,218	1,209	1,167	1,304	1,232	1,154
Applied	- strategic	594	686	755	733	754	838	896	890	767	906	870	919
	- specific	116	166	157	167	186	206	213	255	255	302	293 †	300
Experimental Development		19	24	21	40	41	53	50	54	49	57	59	59
<b>TOTAL NET EXPENDITURE</b>		<b>2,241</b>	<b>2,748</b>	<b>2,866</b>	<b>2,689</b>	<b>2,912</b>	<b>3,111</b>	<b>3,166</b>	<b>3,155</b>	<b>2,956</b>	<b>3,323</b>	<b>3,229 †</b>	<b>3,185</b>
<b>CIVIL R&amp;D<sup>2</sup></b>													
Basic	- pure	69	43	46	105	100	123	122	109	116	120	110	111
	- oriented	77	46	39	82	216	138	101	129	90	99	98 †	107
Applied	- strategic	787	890	831	670	620	669	697	681	768	813 †	838	816
	- specific	756 †	775	795	948	1,024	1,303	992	1,176	1,177	1,289	1,333	1,301
Experimental Development		104	126	95	87	73	61	344	328	413	585 †	602	721
<b>CIVIL NET EXPENDITURE</b>		<b>1,793 †</b>	<b>1,880</b>	<b>1,807</b>	<b>1,892</b>	<b>2,033</b>	<b>2,295</b>	<b>2,255</b>	<b>2,423</b>	<b>2,565</b>	<b>2,906</b>	<b>2,981</b>	<b>3,055</b>
<b>DEFENCE R&amp;D</b>													
Basic	- pure	-	-	-	-	-	-	-	-	-	-	-	-
	- oriented	-	-	-	-	-	-	-	-	-	-	-	-
Applied	- strategic	75	30	35	21	13	29	21	17	59	89	100	120
	- specific	564	568	598	614	571	546	513	536	506	497	516	484
Experimental Development		1,552	1,645	1,492	1,505	1,406	1,177	1,159	753	895	931	1,088	1,058
<b>DEFENCE NET EXPENDITURE</b>		<b>2,191</b>	<b>2,243</b>	<b>2,124</b>	<b>2,139</b>	<b>1,991</b>	<b>1,752</b>	<b>1,693</b>	<b>1,306</b>	<b>1,460</b>	<b>1,516</b>	<b>1,704</b>	<b>1,662</b>

Source: Office for National Statistics

- denotes nil, figures unavailable or too small to display.

† denotes earliest data revision.

1 For the purpose of this analysis Research Councils expenditure for Pensions have been excluded.

2 For the purpose of this analysis Higher Education Funding Councils are excluded.

3 [R&D and related concepts follow internationally agreed standards as published in the Frascati Manual.](#)

Constant prices (2015)

£ million

		2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
<b>RESEARCH COUNCILS R&amp;D<sup>1</sup></b>													
Basic	- pure	946 †	1,227	1,114	843	907	885	849	792	746	772	782	753
	- oriented	923 †	1,026	1,144	1,152	1,236	1,321	1,310	1,282	1,213	1,333	1,241	1,154
Applied	- strategic	734 †	826	882	836	837	918	963	945	797	926	876	919
	- specific	143 †	200	184	190	207	226	229	271	265	309	296	300
Experimental Development		24	29 †	24	45	45	58	54	57	51	58	59	59
<b>TOTAL NET EXPENDITURE</b>		<b>2,769 †</b>	<b>3,307</b>	<b>3,348</b>	<b>3,067</b>	<b>3,233</b>	<b>3,408</b>	<b>3,406</b>	<b>3,347</b>	<b>3,071</b>	<b>3,397</b>	<b>3,253</b>	<b>3,185</b>
<b>CIVIL R&amp;D<sup>2</sup></b>													
Basic	- pure	86 †	52	54	119	112	135	131	116	121	123	111	111
	- oriented	95 †	55	46	93	240	151	109	137	94	101	99	107
Applied	- strategic	972 †	1,071	971	765	688	733	749	723	798	832	844	816
	- specific	935 †	932	929	1,081	1,137	1,428	1,067	1,247	1,223	1,317	1,343	1,301
Experimental Development		128 †	152	111	100	81	67	370	348	429	598	606	721
<b>CIVIL NET EXPENDITURE</b>		<b>2,216 †</b>	<b>2,262</b>	<b>2,110</b>	<b>2,158</b>	<b>2,258</b>	<b>2,514</b>	<b>2,425</b>	<b>2,570</b>	<b>2,665</b>	<b>2,971</b>	<b>3,003</b>	<b>3,055</b>
<b>DEFENCE R&amp;D</b>													
Basic	- pure	-	-	-	-	-	-	-	-	-	-	-	-
	- oriented	-	-	-	-	-	-	-	-	-	-	-	-
Applied	- strategic	93 †	36	40	23	15	32	23	18	61	91	101	120
	- specific	697 †	684	698	700	634	598	552	569	526	508	520	484
Experimental Development		1,918 †	1,980	1,743	1,716	1,561	1,289	1,247	798	930	951	1,096	1,058
<b>DEFENCE NET EXPENDITURE</b>		<b>2,708 †</b>	<b>2,700</b>	<b>2,481</b>	<b>2,440</b>	<b>2,210</b>	<b>1,918</b>	<b>1,821</b>	<b>1,385</b>	<b>1,517</b>	<b>1,550</b>	<b>1,717</b>	<b>1,662</b>
2015 = 100										Source: Office for National Statistics			
		2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
GDP deflator used to convert current prices to constant prices		80.925 †	83.085	85.604	87.677	90.059	91.298	92.968	94.259	96.238	97.825	99.262	100

- denotes nil, figures unavailable or too small to display.

† denotes earliest data revision.

Please see Table 10 for footnotes.

Current prices	£ million							
	2008	2009	2010	2011	2012	2013	2014	2015
<b>Research Councils:</b>								
Science and Technology Facilities (STFC)	304	275	228	304	254	297	314	305
Natural Environment (NERC)	214	261	283	285	263	262	261 †	280
Medical (MRC)	320	340	394	348	278	246	232	172
Pensions <sup>4</sup>	23	11	10	10	8	8	11	17
Biotechnology and Biological Sciences (BBSRC) <sup>1</sup>	173	202	219	87	-	-	-	-
Economic and Social (ESRC)	8	7	6	-	-	-	-	-
Engineering and Physical Sciences (EPSRC)	-	-	-	-	-	-	-	-
Arts and Humanities (AHRC)	-	-	-	-	-	-	-	-
<b>TOTAL</b>	<b>1,041</b>	<b>1,097</b>	<b>1,141</b>	<b>1,035</b>	<b>804</b>	<b>814</b>	<b>819 †</b>	<b>773</b>
<b>Civil Departments:</b>								
Business, Innovation and Skills (BIS) <sup>2,5,6,8</sup>	-	83	85	112	123	134	92	85
Culture, Media and Sport (DCMS)	37	39	39	38	54	93	68	63
Scottish Government (SG)	55	57	55	51	58	57	57	57
Environment, Food and Rural Affairs (DEFRA)	107	109	91	91	86	93	80	42
Health (excluding NHS) <sup>7</sup>	35	24	30	26	28	36	30	32
Home Office (HO)	16	16	18	13	9	12	15	16
Other Departments	39	40	39	47	41	32 †	32	11
International Development (DFID)	4	5	6	6	7	8	8 †	7
Health and Safety Executive (HSE)	8	8	8	9	7	7	7	6
Work and Pensions (DWP)	5	15	6	5	5	5	6	6
Ministry of Justice (MoJ)	7	4	4	5	6	5	6	5
Northern Ireland Departments (NI)	9	8	7	8	8	8	7	5
Education (DfE)	4	4	3	2	3	3	3	3
Welsh Government (WG)	3	2	2	2	2	3	2	2
Transport (DT)	4	3	3	2	3	3	3	2
Energy and Climate Change (DECC)	-	-	1	1	1	2	2	2
Communities and Local Government (DCLG)	3	3	3	1	1	1	1	1
Enterprise and Regulatory Reform (BERR) <sup>2</sup>	83	-	-	-	-	-	-	-
Food Standards Agency (FSA)	-	-	-	-	-	-	-	-
Foreign and Commonwealth Office (FCO) <sup>3</sup>	-	2	1	-	-	-	-	-
BIS Science <sup>5</sup>	-	-	-	-	-	-	-	-
National Health Service (NHS) <sup>7</sup>	-	-	-	-	-	-	-	-
Local Authorities	667	697	746	745	797	838	816	810
<b>TOTAL</b>	<b>1,087</b>	<b>1,119</b>	<b>1,146</b>	<b>1,164</b>	<b>1,241</b>	<b>1,339 †</b>	<b>1,233</b>	<b>1,156</b>
Ministry of Defence (MoD)	262	288	226	158	150	164	158	168
<b>GRAND TOTAL</b>	<b>2,390</b>	<b>2,504</b>	<b>2,513</b>	<b>2,356</b>	<b>2,195</b>	<b>2,316 †</b>	<b>2,210</b>	<b>2,097</b>

Source: Office for National Statistics

Please note, no R&amp;D data appears on this table for HEFCs as they are R&amp;D funders and not performers.

- denotes nil, figures unavailable or too small to display.

† denotes earliest data revision.

1 From 2011, the research institutes that BBSRC funded, were reclassified from general government to either the higher education or non profit organisation sectors.

2 In 2009, BERR was renamed BIS. BIS was replaced by the Department for Business, Energy & Industrial Strategy (BEIS) from July 2016.

3 Department was not surveyed prior to 2009.

4 Research Councils' pension contributions are included separately.

5 From 2010, BIS Science reported under BIS.

6 Please note for the purpose of this analysis Launch Investment is not shown separately.

7 In previous publications, Department of Health (DH) included NHS, from this publication onwards DH estimates exclude NHS.

8 Estimates of launch investment loan repayments received by government from business are no longer included following a review of how these payments should be reported. These loan repayments are in relation to loans given out in previous years and therefore should not be included in current totals of R&D expenditure.

Constant prices (2015)

£ million

	2008	2009	2010	2011	2012	2013	2014	2015
<b>Research Councils:</b>								
Science and Technology Facilities (STFC)	337 †	302	245	323	264	304	317	305
Natural Environment (NERC)	238 †	286	305	303	274	268	263	280
Medical (MRC)	355 †	372	424	370	288	251	234	172
Pensions <sup>4</sup>	25 †	12	11	10	9	8	12	17
Biotechnology and Biological Sciences (BBSRC) <sup>1</sup>	192 †	221	235	93	-	-	-	-
Economic and Social (ESRC)	9 †	8	7	-	-	-	-	-
Engineering and Physical Sciences (EPSRC)	-	-	-	-	-	-	-	-
Arts and Humanities (AHRC)	-	-	-	-	-	-	-	-
<b>TOTAL</b>	<b>1,156 †</b>	<b>1,202</b>	<b>1,227</b>	<b>1,098</b>	<b>835</b>	<b>832</b>	<b>825</b>	<b>773</b>
<b>Civil Departments:</b>								
Business, Innovation and Skills (BIS) <sup>2,5,6,8</sup>	-	91 †	91	119	127	137	93	85
Culture, Media and Sport (DCMS)	41 †	42	42	40	57	96	68	63
Scottish Government (SG)	61 †	63	59	54	61	58	57	57
Environment, Food and Rural Affairs (DEFRA)	119 †	119	98	97	90	96	80	42
Health (excluding NHS) <sup>7</sup>	39 †	26	32	28	29	36	30	32
Home Office (HO)	18	17	19	13	10	12	15	16
Other Departments	43 †	44	42	49	43	33	32	11
International Development (DFID)	4 †	5	6	6	8	8	8	7
Health and Safety Executive (HSE)	9 †	8	9	9	7	7	7	6
Work and Pensions (DWP)	6	17	6	6	5	5	6	6
Ministry of Justice (MoJ)	7 †	4	4	5	6	5	6	5
Northern Ireland Departments (NI)	10	9	8	8	8	8	7	5
Education (DfE)	5	4	3	2	3	3	3	3
Welsh Government (WG)	3	3	2	2	2	3	2	2
Transport (DfT)	4	3 †	3	2	3	3	3	2
Energy and Climate Change (DECC)	-	-	1	1	2	2	2	2
Communities and Local Government (DCLG)	4	3	4	1	1	1	1	1
Enterprise and Regulatory Reform (BERR) <sup>2</sup>	92 †	-	-	-	-	-	-	-
DTI (ex OSI and Launch Investment)	-	-	-	-	-	-	-	-
Net Launch Investment	-	-	-	-	-	-	-	-
Food Standards Agency (FSA)	-	-	-	-	-	-	-	-
Foreign and Commonwealth Office (FCO) <sup>3</sup>	-	2	1	-	-	-	-	-
BIS Science <sup>5</sup>	-	-	-	-	-	-	-	-
National Health Service (NHS) <sup>7</sup>	-	-	-	-	-	-	-	-
Local Authorities (including NHS Trusts)	741 †	764	803	791	828	857	822	810
<b>TOTAL</b>	<b>1,207 †</b>	<b>1,225</b>	<b>1,233</b>	<b>1,234</b>	<b>1,290</b>	<b>1,369</b>	<b>1,242</b>	<b>1,156</b>

Constant prices (2015)	£ million							
	2008	2009	2010	2011	2012	2013	2014	2015
Ministry of Defence (MoD)	291 †	315	243	167	156	168	159	168
<b>GRAND TOTAL</b>	<b>2,654 †</b>	<b>2,742</b>	<b>2,703</b>	<b>2,500</b>	<b>2,281</b>	<b>2,368</b>	<b>2,226</b>	<b>2,097</b>
2015 = 100	Source: Office for National Statistics							

	2008	2009	2010	2011	2012	2013	2014	2015
GDP deflator used to convert current prices to constant prices	90.059 †	91.298	92.968	94.259	96.238	97.825	99.262	100

Please note, no R&D data appears on this table for HEFCs as they are R&D funders and not performers.

- denotes nil, figures unavailable or too small to display.

† denotes earliest data revision.

Please see Table 12 for footnotes.

£ million

	Organisations receiving funds for R&D							Total	
	UK Research Councils	Elsewhere within Own Organisation	Elsewhere within UK Central Government	UK Local Authorities	UK Higher Education	UK Business	UK Other		Abroad
<b>Department providing the funds for R&amp;D</b>									
<b>Research Councils:</b>									
Engineering and Physical Sciences (EPSRC)	16	-	24	-	744	-	13	1	798
Medical (MRC)	10	-	10	-	592	-	118	25	756
Biotechnology and Biological Sciences (BBSRC)	-	-	-	-	259	-	180	6	445
Science and Technology Facilities (STFC)	-	-	1	-	122	-	-	177	300
Economic and Social (ESRC)	11	-	-	-	176	-	3	4	194
Natural Environment (NERC)	14	-	-	-	150	1	1	4	170
Arts and Humanities (AHRC)	2	-	-	-	91	-	-	-	94
<b>TOTAL<sup>1</sup></b>	<b>53</b>	<b>-</b>	<b>36</b>	<b>-</b>	<b>2,135</b>	<b>1</b>	<b>314</b>	<b>217</b>	<b>2,756</b>
<b>Higher Education Funding Councils (HEFCs):</b>									
England (HEFCE)	-	-	-	-	1,798	-	-	-	1,798
Scotland (SFC)	-	-	-	-	285	-	-	-	285
Wales (HEFCW)	-	-	-	-	82	-	-	-	82
Northern Ireland (DELNI)	-	-	-	-	52	-	-	-	52
<b>TOTAL</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2,218</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2,218</b>
<b>Civil Departments:</b>									
Business, Innovation and Skills (BIS) <sup>2,4</sup>	45	9	3	1	109	662	132	275	1,236
National Health Service (NHS) <sup>3</sup>	7	-	2	756	225	70	10	-	1,070
International Development (DFID)	49	-	-	-	25	16	43	175	307
Scottish Government (SG)	2	1	1	43	33	26	2	-	109
WG (formerly WO and WAG)	-	9	7	1	32	5	1	-	55
Energy and Climate Change (DECC)	2	1	-	-	3	36	5	1	48
Transport (DfT)	-	-	6	1	2	24	10	-	43
Environment, Food and Rural Affairs (DEFRA)	6	2	5	-	7	18	2	2	42
Health (DH) (excluding NHS) <sup>3</sup>	1	3	-	-	27	-	1	-	33
Northern Ireland Departments (NI)	-	-	4	6	5	-	1	-	18
Culture, Media and Sport (DCMS)	-	-	-	1	2	10	1	-	15
Work and Pensions (DWP)	1	-	6	-	-	6	-	-	12
Education (DfE)	-	-	-	-	1	10	-	-	12
Communities and Local Government (DCLG)	-	-	1	-	-	3	4	-	8
Home Office (HO)	-	1	2	-	1	3	-	1	7
Other Departments	-	-	-	-	1	4	-	-	6
Food Standards Agency (FSA)	-	-	-	-	2	2	-	-	5

£ million

	Organisations receiving funds for R&D								Total
	UK Research Councils	Elsewhere within Own Organisation	Elsewhere within UK Central Government	UK Local Authorities	UK Higher Education	UK Business	UK Other	Abroad	
<b>Department providing the funds for R&amp;D</b>									
Ministry of Justice (MoJ)	-	-	-	-	-	1	-	-	2
Health and Safety Executive (HSE)	-	-	-	-	-	-	-	-	1
Foreign and Commonwealth Office (FCO)	-	-	-	-	-	-	-	-	-
<b>TOTAL</b>	<b>113</b>	<b>26</b>	<b>39</b>	<b>810</b>	<b>478</b>	<b>895</b>	<b>213</b>	<b>454</b>	<b>3,027</b>
Ministry of Defence (MoD)	1	-	12	-	1	1,299	-	227	1,540
<b>GRAND TOTAL<sup>1</sup></b>	<b>167</b>	<b>26</b>	<b>87</b>	<b>810</b>	<b>4,831</b>	<b>2,195</b>	<b>527</b>	<b>899</b>	<b>9,541</b>

Source: Office for National Statistics

- denotes nil, figures unavailable or too small to display.

1 For the purpose of this analysis Research Councils expenditure for Pensions have been excluded as they cannot be attributed to type of research.

2 Please note for the purpose of this analysis Launch Investment is not shown separately.

3 In previous publications, Department of Health (DH) included NHS, from this publication onwards DH estimates exclude NHS.

4 BIS was replaced by the Department for Business, Energy &amp; Industrial Strategy (BEIS) from July 2016.



	£ million			
	In-House Expenditure on R&D	Purchased or Funding provided for R&D	Funding Received for R&D <sup>1,6</sup>	Net Expenditure on R&D <sup>2,6</sup>
<b>Research Councils:</b>				
Medical (MRC)	172	756	110	817
Engineering and Physical Sciences (EPSRC)	-	798	28	770
Science and Technology Facilities (STFC)	305	300	64	541
Biotechnology and Biological Sciences (BBSRC)	-	445	23	421
Natural Environment (NERC)	280	170	77	373
Economic and Social (ESRC)	-	194	23	171
Arts and Humanities (AHRC)	-	94	2	91
Pensions	17	54	6	65
<b>TOTAL</b>	<b>773</b>	<b>2,810</b>	<b>334</b>	<b>3,250</b>
<b>Higher Education Funding Councils (HEFCs):</b>				
England (HEFCE)	-	1,798	-	1,798
Scotland (SFC)	-	285	-	285
Wales (HEFCW)	-	82	-	82
Northern Ireland (DELNI)	-	52	-	52
<b>TOTAL</b>	<b>-</b>	<b>2,218</b>	<b>-</b>	<b>2,218</b>
<b>Civil Departments:</b>				
Business, Innovation and Skills (BIS) <sup>3,6,7</sup>	85	1,236	143	1,178
National Health Service (NHS) <sup>5</sup>	-	1,070	34	1,036
International Development (DFID)	7	307	-	314
Scottish Government (SG)	57	109	4	161
Environment, Food and Rural Affairs (DEFRA)	42	42	14	70
Culture, Media and Sport (DCMS)	63	15	32	46
Energy and Climate Change (DECC)	2	48	5	44
Transport (DfT)	2	43	1	44
Health (DH) (excluding NHS) <sup>5</sup>	32	33	21	44
Home Office (HO)	16	7	4	20
Work and Pensions (DWP)	6	12	1	17
WG (formerly WO and WAG)	2	55	41	16
Northern Ireland Departments (NI)	5	18	8	15
Education (DfE)	3	12	1	14
Other Departments	11	6	7	10
Communities and Local Government (DCLG)	1	8	2	7
Health and Safety Executive (HSE)	6	1	-	7

	£ million			
	In-House Expenditure on R&D	Purchased or Funding provided for R&D	Funding Received for R&D <sup>1, 6</sup>	Net Expenditure on R&D <sup>2, 6</sup>
Ministry of Justice (MoJ)	5	2	-	7
Food Standards Agency (FSA)	-	5	-	5
Foreign and Commonwealth Office (FCO)	-	-	-	-
Local Authorities (including NHS Trusts) <sup>4</sup>	810	-	810	-
<b>TOTAL</b>	<b>1,156</b>	<b>3,027</b>	<b>1,128</b>	<b>3,055</b>
Ministry of Defence (MoD)	168	1,540	46	1,662
<b>GRAND TOTAL</b>	<b>2,097</b>	<b>9,595</b>	<b>1,508</b>	<b>10,185</b>

- denotes nil, figures unavailable or too small to display.

1 Funding received for R&D excluding grant in aid (also referred to as own funds).

2 Net expenditure is calculated as in-house R&D plus purchased R&D or funding provided for R&D less funding received for R&D.

3 Please note for the purpose of this analysis Launch Investment is not shown separately.

4 Departmental estimates of funding provided to Local Authorities/NHS Trusts' are used as a proxy for Local Authorities/NHS Trusts' performed (in-house) R&D expenditure.

5 In previous publications, Department of Health (DH) included NHS, from this publication onwards DH estimates exclude NHS.

6 Estimates of launch investment loan repayments received by government from business are no longer included following a review of how these payments should be reported. These loan repayments are in relation to loans given out in previous years and therefore should not be included in current totals of R&D expenditure.

7 BIS was replaced by the Department for Business, Energy & Industrial Strategy (BEIS) from July 2016.