

Notice is given under section 1 of the Statistics of Trade Act 1947



Survey of Research and Development Carried Out in the United Kingdom

## Please do not discard this important document - your response is legally required

00001 62012 CONTACT NAME OFFICE FOR NATIONAL STATISTICS GOVERNMENT BUILDINGS CARDIFF ROAD NEWPORT NP10 8XG \*\*\*\*\*\*\*\* EXAMPLE PRINT \*\*\*\*\*\*\*

Please write any changes to your name and address in the box below, using black ink

## To be completed for: THE BUSINESS NAMED ABOVE

# Please complete and return by 4 April 2017

Dear Sir or Madam,

Please find the 2016 questionnaire for the Survey of Research and Development Carried Out in the United Kingdom attached. Please complete for the calendar year 2016. If actual figures are not available, please provide informed estimates. Once complete, the questionnaire can be returned by post or fax using the details in the box below.

The information you supply is used to measure resources devoted to research and development in the UK. These figures are used in analysis and decision making by government, businesses and international organisations, and are collected as part of the UK's international obligations, particularly to the European Union.

We guarantee that while your employment is less than 10, you will receive no more than 1 questionnaire for this ONS business survey. You must complete and return this questionnaire on time, after which you will be excluded from all business surveys for at least 3 years. The Annual Survey of Hours and Earnings is not covered by this guarantee.

**You are required by law to complete this questionnaire.** If you do not complete and return this questionnaire by 4 April 2017, penalties may be incurred (under section 4 of the Statistics of Trade Act 1947). All the information you provide is kept strictly confidential. It is illegal for us to reveal your data or identify your business to unauthorised persons.

Thank you for your co-operation, Office for National Statistics

Questionnaire return detail	s	
To return via fax:		01633 652707
•	se use the prepaid envelope provided which is addres s, Government Buildings, Cardiff Road, Newport, NP1	
Contact numbers		
Er mwyn gwneud cais am	ffurflen Gymraeg (To request a questionnaire in Welsl	h) 0300 1234 921
If you would like to use our	r Minicom service for the Deaf	01633 815 044
To complete the questionn	aire in Euros	0300 1234 940
For any other queries, plea or go to <b>www.ons.gov.uk</b> /	ase contact the <b>R&amp;D Survey Team</b> / <b>surveys</b>	0300 1234 940
When contacting the office	you may be asked for the following informa	ation
Survey code: 002	Reference number: 4990 0000 000	Period: 201612
• Telephone calls may be record	ded for training and quality purposes	

002 0001 62012

49900000000 H 00000000 A 002 201612 001

F P G 0 0 2

R&D SO

# 2016 Business Enterprise Research and Development

#### **Purpose of this Survey**

The purpose of this survey is to collect expenditure and employment figures relating to Research and Development (R&D) activities. The survey contributes to the measurement of resources devoted to research and development in the United Kingdom. The information is also collected to meet the UK's international obligations, particularly to the European Union.

If your business did not have any R&D please note that you are still required to complete the relevant sections in this questionnaire.

#### What is R&D?

R&D covers **three** types of activity:

- 1. Basic research
- 2. Applied research
- 3. Experimental development

R&D comprises creative and systematic work undertaken in order to increase the stock of knowledge, and in order to devise new applications of available knowledge. R&D activity **must** have elements of **all of these five** criteria:

- 1. Novel To be aimed at new findings
- 2. Creative To be based on original, not obvious, concepts and hypotheses
- 3. Uncertain To be uncertain about the final outcome
- 4. Systematic To be planned and budgeted
- 5. Transferable/reproducible To lead to results that could possibly be reproduced

Further explanatory notes can be found at the back of this survey.

#### Coverage

The UK includes England, Scotland, Wales and Northern Ireland but excludes the Channel Islands and the Isle of Man.

#### **Tax Credits**

Do not include R&D tax credits in any of your figures.

#### Information Required

This questionnaire is divided into five sections:

Section A - asks for the reporting period.

Section B - asks for information on in-house R&D.

Section C - asks for information on the purchase of R&D outside of this business.

Section D - asks for the number of employees working on R&D.

Section E - asks for comments and contact details.

#### How to complete the questionnaire

- Complete in black ink
- Ensure letters and numbers are PRINTED and centred within each box
- Do not cross sevens 7 or zeros Ø
- Please leave question blank if not applicable

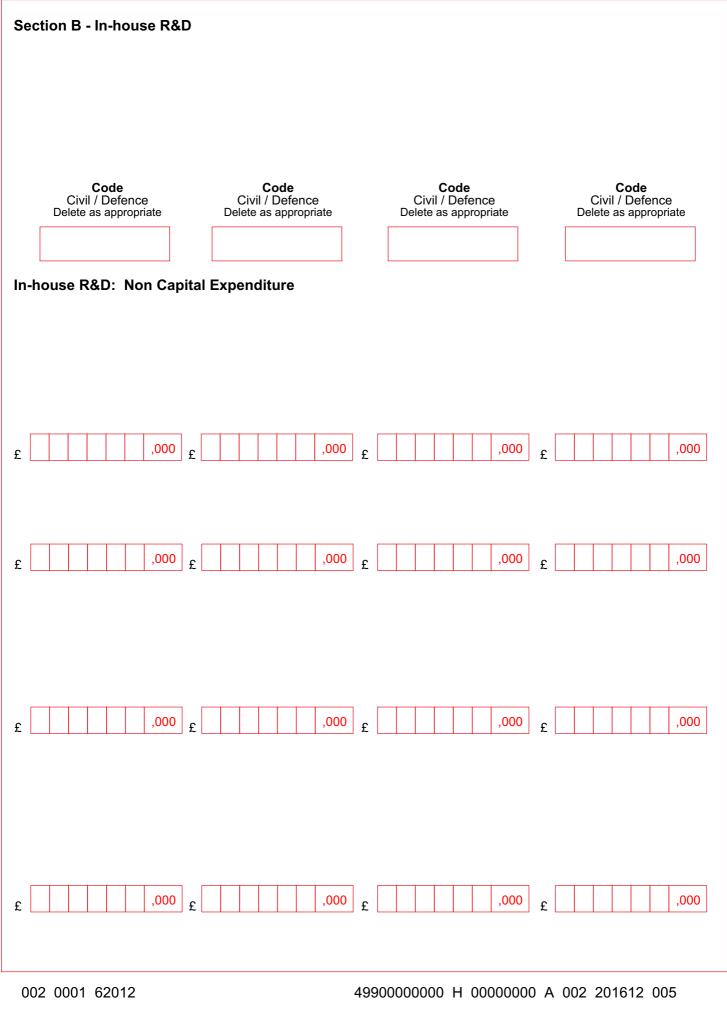
Please complete this questionnaire for the business named on the front of the questionnaire

002 0001 62012 02X1 B

Sec	tion A - Reporting Period	
1.	Are you able to report for the calendar year, 1 Ja	nuary 2016 to 31 December 2016?
	Yes 🔀 — Go to Q3	
	No Go to Q2	
2.	What are the dates of the 12-month period that y Your return should relate to a business year that end	
	Day Month Year From:	Day Month Year
002	2 0001 62012	49900000000 H 00000000 A 002 2

**In-house R&D** refers to all R&D that your business has undertaken in the reporting period either for yourself or for a customer. This is the total cost of R&D conducted by your business, regardless of the source of funds or their treatment within your business' accounts. This includes all purchased services and materials which supports the in-house R&D that your business performs.

3. STOP	Please select the code that best describes the sector for which in-house R&D has been carried out during the 12 month reporting period. The full list of codes can be found at the back of the questionnaire. If more than six codes are applicable to this business please telephone 0300 1234 940	<b>Code</b> Civil / Defence Delete as appropriate	<b>Code</b> Civil / Defence Delete as appropriate
	Defence R&D is all R&D carried out primarily for defence or military reasons, even if civil use is made of it at a later date		
The to treatr	Duse R&D: Non Capital Expenditure otal cost of non capital expenditure carried out by your bus nent within your business' accounts. penditure should be reported as gross unless otherwise sta	-	source of funds or their
4.	During the 12 month reporting period, what was your gross non capital expenditure on salaries and wages for R&D? Include overtime, bonuses, redundancies, commissions, holiday pay and employers' contributions to national insurance and pension schemes£	,000 £	,000
5.	During the 12 month reporting period, what was your non capital expenditure on all R&D materials, supplies, equipment and services?Include expenditure on on-site consultants and overseas purchases.Exclude VAT.£	,000 £	,000
	Of your figure reported in question 5, how much was spent on: The sum of answers to questions 5a and 5b should equal your answer to question 5. Please provide estimates if actual data is not available.		
(a)	purchase of materials for R&D?Include water, fuel, materials for labs (for example, chemicals), reference materials (for example, books).Exclude VAT£	,000 £	,000
(b)	purchase of services for R&D?Include expenditure for on-site consultants, prototypes/models made outside the organisation, indirect services hired/purchased (for example, security, storage, repair/maintenance of buildings/equipment, computer services, printing, subscriptions to libraries/scientific societies, all administration, insurance, post and telecommunications)Exclude VAT£	,000 £	,000



02X1 Da

		<b>Code</b> Civil / Defence Delete as appropriate	<b>Code</b> Civil / Defence Delete as appropriate
Please	e write your codes as they appear on the previous page		
In-ho	ouse R&D: Non Capital Expenditure		
treatm	otal cost of non capital expenditure carried out by your busine nent within your business' accounts. penditure should be reported as gross unless otherwise state		ource of funds or their
6.	During the 12 month reporting period, what was your total in-house non capital expenditure on R&D? This is the sum of questions 4 and 5 £	,000 £	,000
7.	Of your total in-house, non capital expenditure on R&D in question 6:		
(a)	how much related to basic research?Work undertaken primarily to acquire newknowledge without a specific application in mind £	,000 £	,000
(b)	how much related to applied research? Work undertaken to acquire new knowledge with a specific application in mind £	,000 £	,000
(c)	how much related to experimental development? Work using the results from basic and/or applied research for the purpose of creating new or improved products/processes	,000 £	,000

ſ	De	Civ	il /	ode Def app	enc propi	e riat	e			[	C Dele	Civi ete	/ [	ode Def app	enc prop	ce oriat	e			D	Civ elet	vil /	Coc / De s ap	<b>le</b> efer opro	nce opria	ate		ſ	De	Civ lete	Co il / C as a	o <b>de</b> Defe appr	opri	e ate
-h	ou	se	R8	D:	N	on	Ca	pita	al	Ex	pe	enc	ditu	ure	•				L									L						
						,	000	£								,	000	£								,000,	£							,00
						,	000	£								,	000	£								,000,	£							,00
						,	000	£								,	000	£								,000	£							,00
						,	000	£								,	000	£								,000,	£							,00

**Code** Civil / Defence Delete as appropriate **Code** Civil / Defence Delete as appropriate

Please write your codes as they appear on the previous page. . .

#### In-house R&D: Capital Expenditure

The total cost of capital expenditure on R&D carried out by your business in the UK, regardless of the source of funding. No deduction should be made for depreciation. Where expenditure has been incurred on capital assets for both R&D and non R&D purposes, please report an estimate of the amount relating to R&D.

8.											
(a)	During the 12 month reporting period, what was						_				
	your gross capital expenditure on land acquired for R&D?	£				,000,	£				,000,
(b)	During the 12 month reporting period, what was your gross capital expenditure on buildings acquired/constructed for R&D? Include major improvements, modifications,	6				,000,	£				,000,
9.	new builds and repairs	£					L				<u> </u>
(a)	During the 12 month reporting period, what was your gross capital expenditure on equipment and machinery for R&D? Include computer software that has been developed						_	 			
	in-house specifically for R&D. Exclude routine computer software	£				,000	£				,000,
(b)	Of your figure reported in question 9(a), how much was spent on computer software for R&D?	£				,000	£				,000
10.	During the 12 month reporting period, what was your total in-house capital expenditure for R&D? This is the sum of questions 8a, 8b and 9a	£				,000	£				,000
Tota	In-house Expenditure										
11.	During the 12 month reporting period, what was your total in-house capital and non capital expenditure for R&D? This is the sum of questions 6 and 10	£				,000,	£				,000
	Tax Credits										
	Do not include R&D tax credits in any of your figures.										

		[			il /		əfe	enc ropi		e				D	C ele	ivil	/ [	ode Def app	fen	ce pri	e ate	]		Γ	De	/il /		e fenc prop		e				il / I	enc	e riate
	ł	10	us	е	R	&D	):	C	ар	oita	I E	Ξ×ŗ	Dei	nd	itu	re	9					J		L												
$\begin{array}{c c c c c c c c c c c c c c c c c c c $									,	00	D	£									,00	D	£						,	000	£					,00
$\begin{array}{c c c c c c c c c c c c c c c c c c c $									,	00	2	£									,00	D	£						,	,000	£					,00
$\begin{array}{c c c c c c c c c c c c c c c c c c c $																																				
$\begin{array}{c c c c c c c c c c c c c c c c c c c $									,	00	)	£									,00	0	£						,	000	£					,00
									,	00	כ	£									,00	C	£						,	000	£					,00
,000 £ 000, £ 000, £ 000, £ 000, £ 000, £									,	00	2	£									,00	0	£						,	000	£					,00
									, ,	,00	5	£									,00,	0	£						,	,000	ļ	Γ				,00
			1									~											~			_	-	_			_ ~		 1	•	-	

Sect	ion B - In-house R&D												
			D			<b>e</b> fence propri			De		<b>Cod</b> / De as ap	fenc	
Pleas	e write your codes as they appear on the previous pag	e											
	ling for Expenditure on In-house R&D												
Inclue	le contracts, grants or donations in the form of money o	or othe	er res	ource	es. E	stima	ates ar	e ac	cepta	ble.			
12.	Of your in-house expenditure for R&D, how much was originally funded by:												
(a)	own funds from within the UK? Include funding from your parent company or other subsidiary companies operating within the UK	£					,000,	£					,000,
(b)	the UK Government? Include funding from, or originating within, UK government departments, their agencies and non-departmental public bodies (for example, NHS, Ministry of Defence, Department of Health, Department for Business, Energy and Industrial Strategy, the Scottish / Welsh Governments)	£					,000	£					,000,
(c)	other UK business enterprises? Include private non-profit organisations serving businesses	£					,000,	£					,000,
(d)	UK non-profit organisations? Include trade unions and private non-profit organisations serving households	£					,000,	£					,000,
(e)	UK higher education establishments?	£					,000,	£					,000
(f)	business enterprises within your group outside the UK?												
	Include funding from your parent company or other subsidiary companies operating outside the UK	£					,000,	£					,000
(g)	other business enterprises outside the UK?	£					,000	£					,000
(h)	other Governments outside the UK?	£					,000	£					,000
(i)	higher education establishments outside the UK?	£					,000,	£					,000
(i)	non-profit organisations outside the UK?	£					,000	£					,000
(k)	the Commission of the European Union? Do not include funding for R&D for defence codes	£					,000,	£					,000
(I)	international organisations? For example, World Trade Organisation, NATO	£					,000,	£					,000
(m)	any other organisations outside the UK?	£					,000,	£					,000,
13.	What was your total R&D funding for in-house expenditure?												
	This is the sum of questions 12a to 12m. This should equal question 11.	£					,000,	£					,000
002	0001 62012	4990	000	0000	) Н	000	00000	) A	002	20 <sup>-</sup>	1612	2 01	10

02X1 G

In				as	ap		ce pria	te			D	elete			fen prop		te		[	D			De s ap	pro		te		ſ	De	Civ elete				e iate
	diı	ng	fo	or	Ex	pe	enc	ditur	e o	n I	n-ł	າວເ	ise	R	&D	)			l									L						
							,	,000	£								,000	£							,	000	£							,00
							,	,000	£								,000	£							,	000	£							,00
							,	,000	£								,000	£							,	000	£							,00
							,(	000	£							,	000	£							,	000	£							,00
							,	,000	£								,000	£							,	000	£							,00
							,	,000	£								,000	£							,	000	£							,00
							,	,000	£								,000	£							,	000	£							,00
							,	,000	£								,000	£							,	000	£							,00
							,	,000	£								,000	£							,	000	£							,00
							,	,000	£								,000	£							,	000	£							,00
							,	,000	£								,000	£							,	000	£							,00
							,	,000	£								,000	£							,	000	£							,00
							,	,000	£								,000,	£							,	000	£							,00
								.000									.000	]								000								,00
									000         0	£ ,000 £	£	£	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1       1	2       3       000,       2       1	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	3       000,       1       2       000,       1         3       000,       1       2       000,       1         3       000,       1       2       000,       1         3       000,       1       3       000,       1         3       000,       1       3       000,       1         3       000,       1       3       000,       1         3       000,       1       3       000,       1         3       000,       1       3       000,       1         3       000,       1       3       000,       1         3       000,       1       3       000,       1         3       000,       1       3       000,       1         3       000,       1       3       000,       1         3       000,       1       3       000,       1       1	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1       1	3       000,       3       000,       3         3       000,       3       000,       3         3       000,       3       000,       3         3       000,       3       000,       3         3       000,       3       000,       3         3       000,       3       000,       3         3       000,       3       000,       3         3       000,       3       000,       3         3       000,       3       000,       3         3       000,       3       000,       3         3       000,       3       000,       3         3       000,       3       000,       3         3       000,       3       000,       3         3       000,       3       000,       3         3       000,       3       000,       3         3       000,       3       000,       3         3       000,       3       000,       3         3       000,       3       000,       3         3       000, <t< td=""><td>3       000,       3       000,       3         3       000,       3       000,       3         3       000,       3       000,       3         3       000,       3       000,       3         3       000,       3       000,       3         3       000,       3       000,       3         3       000,       3       000,       3         3       000,       3       000,       3         3       000,       3       000,       3         3       000,       3       000,       3         3       000,       3       000,       3         3       000,       3       000,       3         3       000,       3       000,       3         3       000,       3       000,       3         3       3       3       3       3         3       3       3       3       3         3       3       3       3       3       3         3       3       3       3       3       3         3       3</td><td><math display="block">\begin{array}{c ccccccccccccccccccccccccccccccccccc</math></td><td>000,       1       2       000,       1       2       000,       1       1         000,       1       2       000,       1       2       000,       1</td><td>3       000,       3       000,       3       000,       3         3       000,       3       000,       3       000,       3         3       000,       3       000,       3       000,       3         3       000,       3       000,       3       000,       3         3       000,       3       000,       3       000,       3         3       000,       3       000,       3       000,       3         3       000,       3       000,       3       000,       3         3       000,       3       000,       3       000,       3         3       000,       3       000,       3       000,       3         3       000,       3       000,       3       000,       3       000,       3         3       000,       3       000,       3       000,       3       000,       3       000,       3       000,       3       000,       3       000,       3       000,       3       000,       3       000,       3       000,       3       000,       3       000,</td><td>3       000,       3       000,       3       000,       3         3       000,       3       000,       3       000,       3         3       000,       3       000,       3       000,       3         3       000,       3       000,       3       000,       3         3       000,       3       000,       3       000,       3         3       000,       3       000,       3       000,       3         3       000,       3       000,       3       000,       3         3       000,       3       000,       3       000,       3       000,       3         3       000,       3       000,       3       000,       3       000,       1         3       000,       3       000,       3       000,       1       1       1         3       000,       3       000,       3       000,       1       1       1         3       000,       3       000,       3       000,       1       1       1       1       1         3       000,       3</td></t<> <td><math display="block">\begin{array}{c ccccccccccccccccccccccccccccccccccc</math></td> <td>3       000,       3       000,       3       000,       3         3       000,       3       000,       3       000,       3         3       000,       3       000,       3       000,       3         3       000,       3       000,       3       000,       3         3       000,       3       000,       3       000,       3         3       000,       3       000,       3       000,       3         3       000,       3       000,       3       000,       3         3       000,       3       000,       3       000,       3         3       000,       3       000,       3       000,       3         3       000,       3       000,       3       000,       3         3       000,       3       3       000,       3       000,       3         3       000,       3       3       000,       3       000,       3         3       3       3       3       3       3       3       3         3       3       3       3</td> <td>3       000,       3       000,       3       000,       3         3       000,       3       000,       3       000,       3       3         3       000,       3       000,       3       3       000,       1       3       000,       1       3       000,       1       3       000,       1       1       3       000,       1       1       3       000,       1       1</td> <td>3       000,       3       000,       3       000,       3         3       000,       3       000,       3       000,       3         3       000,       3       000,       3       3       000,       3         3       000,       3       000,       3       3       000,       3         3       000,       3       000,       3       3       000,       3         3       000,       3       000,       3       3       000,       3         3       000,       3       000,       3       3       000,       3         3       000,       3       000,       3       3       000,       3         3       000,       3       3       000,       3       3       000,       3         3       000,       3       3       000,       3       3       000,       3       3       000,       3       3       000,       3       3       000,       3       3       000,       3       3       000,       3       3       000,       3       3       000,       3       3       <td< td=""><td></td></td<></td>	3       000,       3       000,       3         3       000,       3       000,       3         3       000,       3       000,       3         3       000,       3       000,       3         3       000,       3       000,       3         3       000,       3       000,       3         3       000,       3       000,       3         3       000,       3       000,       3         3       000,       3       000,       3         3       000,       3       000,       3         3       000,       3       000,       3         3       000,       3       000,       3         3       000,       3       000,       3         3       000,       3       000,       3         3       3       3       3       3         3       3       3       3       3         3       3       3       3       3       3         3       3       3       3       3       3         3       3	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	000,       1       2       000,       1       2       000,       1       1         000,       1       2       000,       1       2       000,       1	3       000,       3       000,       3       000,       3         3       000,       3       000,       3       000,       3         3       000,       3       000,       3       000,       3         3       000,       3       000,       3       000,       3         3       000,       3       000,       3       000,       3         3       000,       3       000,       3       000,       3         3       000,       3       000,       3       000,       3         3       000,       3       000,       3       000,       3         3       000,       3       000,       3       000,       3         3       000,       3       000,       3       000,       3       000,       3         3       000,       3       000,       3       000,       3       000,       3       000,       3       000,       3       000,       3       000,       3       000,       3       000,       3       000,       3       000,       3       000,       3       000,	3       000,       3       000,       3       000,       3         3       000,       3       000,       3       000,       3         3       000,       3       000,       3       000,       3         3       000,       3       000,       3       000,       3         3       000,       3       000,       3       000,       3         3       000,       3       000,       3       000,       3         3       000,       3       000,       3       000,       3         3       000,       3       000,       3       000,       3       000,       3         3       000,       3       000,       3       000,       3       000,       1         3       000,       3       000,       3       000,       1       1       1         3       000,       3       000,       3       000,       1       1       1         3       000,       3       000,       3       000,       1       1       1       1       1         3       000,       3	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	3       000,       3       000,       3       000,       3         3       000,       3       000,       3       000,       3         3       000,       3       000,       3       000,       3         3       000,       3       000,       3       000,       3         3       000,       3       000,       3       000,       3         3       000,       3       000,       3       000,       3         3       000,       3       000,       3       000,       3         3       000,       3       000,       3       000,       3         3       000,       3       000,       3       000,       3         3       000,       3       000,       3       000,       3         3       000,       3       3       000,       3       000,       3         3       000,       3       3       000,       3       000,       3         3       3       3       3       3       3       3       3         3       3       3       3	3       000,       3       000,       3       000,       3         3       000,       3       000,       3       000,       3       3         3       000,       3       000,       3       3       000,       1       3       000,       1       3       000,       1       3       000,       1       1       3       000,       1       1       3       000,       1       1	3       000,       3       000,       3       000,       3         3       000,       3       000,       3       000,       3         3       000,       3       000,       3       3       000,       3         3       000,       3       000,       3       3       000,       3         3       000,       3       000,       3       3       000,       3         3       000,       3       000,       3       3       000,       3         3       000,       3       000,       3       3       000,       3         3       000,       3       000,       3       3       000,       3         3       000,       3       3       000,       3       3       000,       3         3       000,       3       3       000,       3       3       000,       3       3       000,       3       3       000,       3       3       000,       3       3       000,       3       3       000,       3       3       000,       3       3       000,       3       3 <td< td=""><td></td></td<>	

02X1 Ga

14. Question 14 on Ownership of R&D Assets has been withdrawn for this period. Please continue to <u>Question 15</u>.

15. Question 15 on Life Length of R&D Assets has been withdrawn for this period. Please continue to <u>Question 16</u>.

Sect	ion C - Purchase of R&D Conducted Outside this	Business	
Exclu ● ai	ide ny expenditure reported as in-house expenditure in Section I	3	
16.	During the 12 month reporting period, did you purchase any R&D conducted outside this business? Include parent companies or other subsidiary companies within the group operating in the UK.		
	Yes X		
	No 🔀 — Go to Q <b>22</b>		
17.	Please select the codes that best describes the sector for which R&D was purchased, outside of this business during the 12 month period. The full list of codes can be found at the back of the question		
	If more than six codes are applicable to your business	Code Civil / Defence	<b>Code</b> Civil / Defence
STOP	<ul> <li>please telephone 0300 1234 940</li> <li><u>Defence R&amp;D</u> is all R&amp;D carried out primarily for</li> </ul>	Delete as appropriate	Delete as appropriate
	defence or military reasons, even if civil use is made of it at a later date		
18.	<ul> <li>During the 12 month reporting period, how much did you spend on R&amp;D work commissioned within the UK?</li> <li>Include</li> <li>parent companies or other subsidiary companies within the group operating in the UK</li> </ul>		
	• subscriptions to industrial research associations Exclude VAT	,000	,000
19.	During the 12 month reporting period, how much did you spend on R&D work carried out outside the UK which was originally funded by the UK Government? Include • parent companies and other businesses overseas • subscriptions to industrial research associations Exclude VAT £	£	,000
20.	<ul> <li>During the 12 month reporting period, how much did you spend on all other R&amp;D work carried out outside the UK?</li> <li>Include</li> <li>parent companies and other businesses overseas</li> <li>subscriptions to industrial research associations</li> </ul>		
	Exclude		
	<ul> <li>expenditure reported in question 19</li> <li>VAT£</li> </ul>	,000 £	,000
21.	During the 12 month reporting period, what was the total R&D work purchased by this business? This is the sum of questions 18, 19 and 20 £	,000 £	,000

002 0001 62012

Section C - Purchase of R&D	)		
<b>Code</b> Civil / Defence Delete as appropriate			
£ ,000 £	,000 £	,000 £	,000
£ ,000 £	,000 £	,000 £	,000
£ ,000 £	,000 £	,000 £	,000
£ ,000 £	,000 £	,000 £	,000
002 0001 62012	49	900000000 H 00000000 A	002 201612 015

02X1 la

Sect	ion D - Number of Employees - Headcount and Full	Time Equivalent (FTE)	
	An employee is anyone aged 16 or over that your organisation out a full-time or part-time job or being on a training scheme.		
	<ul> <li>business' payroll(s)</li> <li>those temporarily absent but still being</li> <li>paid (for example on maternity leave)</li> <li>a</li> </ul>	lude agency workers/contractors agency payroll/contractor co voluntary workers self employed workers former employees only rece working owners who are not pusiness' payroll(s)	iving a pension
22.	On 1 December 2016, how many employees working on Ra	&D were:	
(a)	<b>researchers?</b> Engaged in the conception or creation of new knowledge, products, methods and systems. For example, PhD students, graduates and scientists		Female
(b)	technicians? Perform scientific and technical tasks normally under the supervision of researchers.		
(c)	others? Support staff including skilled and unskilled craftsmen, secretarial and clerical staff participating in R&D projects		
23.	On 1 December 2016, what was your total headcount number for R&D		
24.	During the 12 month reporting period, how many full-time equivalents (FTEs) working on R&D were: One FTE may be thought of as one person-year. For example, a person who normally spends 30% of their time on R&D and the rest on other activities should be considered as 0.3 FTE. Similarly, if a full-time R&D worker is employed at an R&D unit for only six months, this results in the FTE of 0.5.		
(a)	researchers?	Civil	Defence
	Engaged in the conception or creation of new knowledge, products, methods and systems. For example, PhD students, graduates and scientists		
(b)	technicians? Perform scientific and technical tasks normally under the supervision of researchers.		
(c)	<b>others?</b> Support staff including skilled and unskilled craftsmen, secretarial and clerical staff participating in R&D projects		
25.	During the 12 month reporting period, what was your total number of FTEs working on R&D?		

002 0001 62012 02X1 J

## Section E - Workplace Information

# 26. Please list the postcodes of all workplaces within this business where in-house R&D is performed and the percentage of this business' R&D carried out at each workplace.

Include the workplace given on the front page if R&D is performed at this address.

Workplace postcode	Percentage (%) of total R&D
	Total = 100%

#### 27. Have there been any significant changes in the data since the last reporting period?



## 28. Please provide any comments below

#### 29. Contact details

Please provide details of the person we should contact if we have any queries regarding the information returned on this questionnaire:

Contact name													
Telephone number													
Position in business													
E-mail address													

002 0001 62012 02X1 К

## R&D Codes

Please choose the appropriate code from the list below to complete section B and section C on the questionnaire.

Code	Description
1	Agriculture, hunting and forestry; fishing
2	Mining and quarrying (including solids, liquids and gases)
3	Food products and beverages
4	Торассо
5	Textiles
6	Wearing apparel (including fur and leather)
7	Leather and related products
8	Wood, cork and straw products (excluding furniture)
9	Paper and paper products
10	Printing and reproduction of recorded media
11	Coke and refined petroleum products (including mineral oil)
12	Chemicals and chemical products (excluding pharmaceuticals)
13	Pharmaceutical products and preparations
14	Rubber and plastic products
15	Other non-metallic mineral products
16	Basic metals, iron and steel
17	Basic metals, non-ferrous and processing of nuclear fuel
18	Fabricated metal products (excluding machinery and equipment)
19	Weapons and ammunition
20	Electronic components and boards
21	Computers and peripheral equipment
22	Communication equipment
23	Consumer electronics
24	Instruments and appliances for measuring, testing and navigation; watches and clocks

002 0001 62012 02X1 L

# **R&D Codes continued**

Code	Description
25	Irradiation, electromedical and electrotherapeutic equipment
26	Optical instruments and photographic equipment; magnetic and optical media
27	Electrical equipment (including motors, domestic appliances and other electrical equipment)
28	Other general purpose machinery and equipment
29	Motor vehicles, trailers, semi-trailers and caravans (excluding repairs)
30	Ships and boats (excluding repairs)
31	Railway locomotives and rolling stock
32	Air and spacecraft and related machinery
33	Other transport equipment (including motorcycles and invalid carriages)
34	Furniture
35	Other manufacturing (including jewellery, coins, sports goods, games and toys)
36	Repair and installation of machinery and equipment
37	Electricity, gas, steam, air conditioning
38	Sewerage, waste management and remediation activities; water collection, supply and treatment
39	Construction
40	Wholesale and retail trade; Repair of motor vehicles and motorcycles
41	Transport and storage (including land, air, water transport; warehousing and postal/courier activities)
42	Accommodation and food service activities (including hotels, restaurants, camping, take away)
43	Publishing activities (including books and software publishing). Do <u>not</u> include software development
44	Motion picture, video, TV programme, sound, music publishing; broadcasting activities
45	Telecommunications
46	Please see product group 57 for 'computer programming' and product group 58 for 'software development'
47	Information service activities (including data processing, hosting and web portals)

# **R&D Codes continued**

Code	Description
48	Financial and insurance activities (including activities of holding companies)
49	Real estate, (including renting and leasing of own real estate)
50	Professional, scientific & technical activities (including legal, accounting & management consulting)
51	Research and development services (excluding software development)
52	Admin and support activities (including employment, travel agency, security and business support)
53	Public administration and defence (including compulsory social security, and education)
54	Human health and social work activities (including residential care)
55	Arts, entertainment and recreation (including libraries, gambling, sports activities)
56	Other service activities (including repairs to household goods and computers)
57	Computer programming, consultancy and related activities, (excluding software development)
58	Software development

# **Research and Development (R&D) Explained**

We have attempted to provide some basic guidelines below, to help you define and measure R&D for completion of this survey. In some cases you may need to apply an element of judgement when compiling your figures. We accept approximations. Further information can be found in the Frascati Manual, which is the international source of methodology for collecting and using R&D statistics.

## Examples of R&D to be included

- Clinical trials phases I, II and III
- Research into and original development (or substantial modification) of computer software, such as new programming languages and new operating systems
- Design, construction and operation of prototypes where the main objective is technical testing or to make further improvements
- Construction and operation of pilot plants while still in the experimental phase and the primary purpose of operation is non-commerical
- 'Feedback R&D' directed at solving problems occurring beyond the original R&D phase, such as the resolution of technical problems arising in initial production runs
- Research work in the social sciences, arts and humanities

## Examples of R&D to be excluded

Unless used primarily as part of (or for the support of) R&D projects, the following are excluded:

- Clinical trial phase IV
- Scientific and technical information services
- Prospecting, exploring or drilling for minerals, petroleum or natural gas
- Policy related studies, management studies, efficiency studies
- Consumer surveys, advertising, market research
- Routine quality control and testing
- General purpose or routine data collection
- Feasibility studies
- Routine computer programming, systems maintenance or software application
- Commercial, legal and administrative aspects of patenting, copyrighting or licensing activities
- Activities associated with standards compliance
- Specialised routine medical care, e.g. routine pathology services

#### At what stage does R&D end?

R&D ends when the work is no longer experimental, for example, when the material, product etc. is substantially developed and the primary objective is to:

- develop markets
- plan for pre-production and undertake pre-production activities (such as demonstration of commercial viability, tooling up and trial production runs)
- get production or control systems working smoothly

If the primary objective is to make further technical improvements, then the work is still defined as R&D.