

Identification of the organisation or centre

Amendments to the identification particulars (Complete only those sections subject to variation)

Name of the organisation or centre

NIF

Registered address (street, square, avenue, etc.)

--	--	--	--	--	--

Postal code

Municipality

Province

Provincial code

Telephone

Fax

E-mail

Details of the person to be contacted, if necessary, for queries, clarifications or modifications regarding this questionnaire.

SIGNATURE OR SEAL

Mr./Ms.: _____

Post held: _____

Telephone _____ Fax: _____

E-mail: _____

Website: _____

Nature, characteristics and purpose

These statistics are within the framework of the General plan for statistics on science and technology promoted by the Statistics Office of the European Union (Eurostat). They have the main objective of ascertaining the resources that research organisations and centres spend on R&D, for the purpose of estimating the national effort in research.

They are conducted following recommendations of the OECD (Frascati Manual).

Statistical Legislation of compulsory compliance

Statistical Secrecy

The personal information obtained by the statistical services, both directly from the informants and from administrative sources, shall be subject to protection, and covered by **statistical secrecy** (article 13.1 of the Law on Public Statistical Services, of 9 May 1989, (LFEP)). All statistical staff will be obliged to maintain statistical secrecy (article 17.1 of the LFEP).

Obligation to provide data

Laws 4/1990 and 13/1996 establish the **obligation to provide the data** that is requested for the compilation of these Statistics.

The statistical services may request data from all individuals and companies, regardless of whether they are Spanish or foreign, resident in Spain (Article 10.1 of the LFEP).

All individuals and companies that provide data, regardless of whether their collaboration is compulsory or voluntary, **must respond in a true, exact and comprehensive manner within the stipulated deadline** to the questions outlined in due form by the statistical services (art. 10.2 of the LFEP).

In order to monitor compliance with these regulations, the LFEP (art. 48) grants the INE sanctioning capacity.

Failure to comply with the obligations envisaged in this Law, as related to statistics for state purposes, **shall be sanctioned** in accordance with the terms established in the regulations contained in this Heading (art. 48.1 of the LFEP).

Very serious infringements shall be sanctioned with fines ranging from **3,005.07 to 30,050.61 euros**. Serious infringements shall be sanctioned with fines ranging from **300.52 to 3,005.06 euros**. Minor infringements shall be sanctioned with fines ranging from **60.10 to 300.51 euros** (art. 51.1, 51.2 and 51.3 of the LFEP).

General considerations

For the purposes of these statistics, **the following are regarded as R&D activities:** *the group of creative activities undertaken systematically, in order to increase basic research, applied research and experimental development. The latter leads to new devices, products, materials, processes, services or systems.*

The following are not included as R&D activities: education, scientific and technical information, collection of data of a general nature, routine trials, everyday activities. Mineral exploration is not included either, when it is aimed at discovering exploitable reserves and not essentially an increase in basic geological knowledge.

The criterion distinguishing R&D from other activities is the presence or lack of a notable degree of creativity or innovation.

General instructions

Information unit: The information that is requested in this questionnaire refers to the unit, organisation or centre whose identification data appears on the front cover.

Reference period: Data must refer to the target year of the statistics.

Structure of the questionnaire: the questionnaire consists of six sections:

1. General data for the organisation or centre
2. Staff employed in internal R&D activities in 2011
3. Expenditure on R&D activities in 2011
4. Activities based on biological sciences and technologies in 2011
5. In 2011, did the organisation carry out any internal R&D activity using or containing free software?
6. How long did it take to complete this questionnaire?

Form of recording the data: Write down the data clearly. Please do not write in the shaded areas. The financial data is requested in **euros with no decimals**.

Consignment term: This questionnaire, duly completed with the required information, must be returned within a term not exceeding **15 days** from time of receipt. Please carefully read the annex before completing this questionnaire.

1. General data for the organisation or centre

1.1 List of centres whose research data is included in this questionnaire

Please enter the name, Tax Identification Number (NIF) and full address

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10

1.2 Type of Administration on which it depends

Please mark where appropriate with an 'X':

State Administration

Autonomous Administration

Local Administration (Regional Council, Municipal Council and the like)

PNPI* mainly controlled and/or financed by the Administration

(*) PNPI: Private Non-Profit Institutions.

1.3 Institution type

Please mark where appropriate with an 'X':

Administrative service (of a ministry, department, regional council, municipal council, etc.)

Administrative autonomous organisation

Trade, industrial, financial or similar autonomous organisation

Other public law entity Specify:

1.4 Administrative unit immediately above, to which it responds

Please write the full name of the administrative unit immediately above

1.5 Functional dependency of health establishments

Only answer this question where the research body or centre identified on the cover of the questionnaire is a health establishment (hospital, etc.)

National Health Management Institute

Health Service of the Autonomous Community

Regional or Municipal Council (including Insular Council, Inter-island Council and the like)

Other State Administration and Social Security units

Other Autonomous Administration units

2. Staff employed in internal R&D activities in 2011

2.1 Staff employed in internal R&D, according to occupation

The full-time equivalent (FTE) is the sum of the staff that works full-time and the fractions of time that the part-time staff works on R&D activities. (See annex at the end of the questionnaire).

Occupation	Total	Women	Total on FTE * (1 decimal)	Women on FTE * (1 decimal)
1. Researchers (including interns in research)			.	.
2. Technicians			.	.
3. Assistants			.	.
TOTAL STAFF (1+2+3)			.	.

Out of the researchers from point 1, please indicate the interns in research

		.	.
--	--	---	---

2.2 Staff employed in internal R&D, according to qualification

Qualification	Staff in R&D			Researchers (including interns)		
	Total	Women	Total on FTE * (1 decimal)	Total	Women	Total on FTE * (1 decimal)
1. University doctorate-holders			.			.
2. University graduates, architects, engineers and the like			.			.
3. Diploma students, technical architects and engineers and the like			.			.
4. Advanced training cycles (Specific Vocational Training)			.			.
5. Intermediate training cycles, Post-Secondary qualification and the like			.			.
6. Other studies			.			.
TOTAL (1+2+3+4+5+6)			.			.

2.3 Distribution of staff in internal R&D, by Autonomous City and Community in which the organisation or centre carries out R&D activities in 2011

Autonomous City and Community	Staff in R&D				Researchers (including interns)			
	Total	Women	Total on FTE * (1 decimal)	Women on FTE* (1 decimal)	Total	Women	Total on FTE * (1 decimal)	Women on FTE* (1 decimal)
1. Andalucía		
2. Aragón		
3. Asturias, Principado de		
4. Balears, Illes		
5. Canarias		
6. Cantabria		
7. Castilla y León		
8. Castilla-La Mancha		
9. Cataluña		
10. Comunitat Valenciana		
11. Extremadura		
12. Galicia		
13. Madrid, Comunidad de		
14. Murcia, Región de		
15. Navarra, Comunidad Foral de		
16. País Vasco		
17. Rioja, La		
18. Ceuta		

19. Melilla									
TOTAL									

(*) FTE: Full-time equivalent.

2.4 Researchers, by sex and age group (including interns in research)

	All ages	Under 25 years of age
Total researchers		
Of them, women		

2.5 Researchers, by nationality and sex (including interns in research)

Spain		
Rest of the EU ¹		
Other European countries		
North America		
Central America		
South America		
Asia		
Africa		
Oceania		
TOTAL		

¹ Rest of the European Union: Germany, Austria, Belgium, Bulgaria, Cyprus, Denmark, Slovakia, Slovenia, Estonia, Finland, France, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Poland, Portugal, Romania, Sweden, Switzerland, United Kingdom.

2.6 Staff dedicated to internal R&D activities, by scientific field or discipline

1. Exact and natural sciences		
2. Engineering and technology		
3. Medical sciences		
4. Agrarian sciences		
5. Social sciences		
6. Humanities		
TOTAL		

3. Expenditure on R&D activities in 2011

3.1 Expenditure on internal R&D activities in 2011

Expenditure on remunerations shall be those corresponding to the total paid to the researchers on FTE and the total technicians and assistants on FTE, multiplied by the percentage of the part that corresponds to R&D.

- Remunerations of researchers on FTE (including the remuneration of interns)
- Remunerations of technicians and assistants on FTE
- Other current expenses (without VAT or amortizations)

A. Total current expenditure on R&D (1+2+3) (1+2+3) (1+2+3)

- Equipment and instruments (without VAT)
- Land and buildings (without VAT)
- Acquisition of specific software for R&D (including licences) (without VAT)

B Total capital expenditure on R&D (4+5+6)

C. Total internal expenditure on R&D (A+B)

3.2 Financing of internal R&D expenditure in 2011

Breakdown of the total internal expenditure on R&D from question 3.1, according to the original source of the funds received for R&D. In section B. Public financing should differentiate between the origin of funds, by type of Financing Administration, including within it the budgetary resources of the organisation, subsidies, loans, contracts, etc., according to the type of administration on which it depends.

Source of the funds	Amount (euros without decimals)
A. Financed by the actual organisation or centre	
- (This includes inheritance income, refundable loans and income from sales or provision of services)	1
B. Public financing	
- From the State Administration and its Autonomous Institutions (AI)	1
- From the State Administration to which it belongs (where appropriate) and its AI	2
- From other Autonomous administrations and their AI	3
- From local administrations	4
C. Other domestic sources to carry out R&D	
- From public	1
- From private companies and research associations	2
- From public universities	3
- From private universities	4
- Private Non-Profit Institutions	5
D. Funds from abroad for carrying out R&D	
- From foreign companies	1
- From European Union	2
- From foreign public administrations	3
- From foreign universities	4
- From foreign Private Non-Profit Institutions	5
- From other international organisations	6
Total internal expenditure on R&D (this must coincide with 3.1.C)	

3.3 Expenditure in internal R&D, by Autonomous City and Community in 2011

Please distribute the total internal expenditure on R&D indicated in question 3.1, according to the Autonomous City and Community in which the R&D activities have been carried out.

Autonomous City and Community	Amount (euros without decimals)
1. Andalucía	1
2. Aragón	2
3. Asturias, Principado de	3
4. Balears, Illes	4
5. Canarias	5
6. Cantabria	6
7. Castilla y León	7
8. Castilla-La Mancha	8
9. Cataluña	9
10. Comunitat Valenciana	10
11. Extremadura	11
12. Galicia	12
13. Madrid, Comunidad de	13
14. Murcia, Región de	14
15. Navarra, Comunidad Foral de	15
16. País Vasco	16
17. Rioja, La	17
18. Ceuta	18
19. Melilla	19
Total internal expenditure on R&D (this must coincide with 3.1.C)	

3.4 Socio-economic objective

Please break down, as a percentage, the R&D expenditure that the organisation or centre has incurred in 2011, according to the socio-economic purpose or objective of the research (do not write decimals), and check that the sum of percentages is 100%.

		%			
1. Exploration and exploitation of the land media and of the atmosphere	1				%
2. Control and care of the environment	2				%
3. Exploration and exploitation of space	3				%
4.1 Transport and telecommunications systems	4.1				%
4.2 Other infrastructures	4.2				%
5. Production, distribution and rational use of energy	5				%
6. Industrial production and technology	6				%
7. Protection and improvement of human health	7				%
8. Development of agriculture, livestock breeding, forestry and fishing	8				%
9. Education	9				%
10. Culture, leisure, religion and communication	10				%
11. Political and social systems, structures and processes	11				%
12. Unguided research	12				%
13. Defence	13				%
TOTAL		1	0	0	%

3.5 Research expenditure on the protection and improvement of human health

If in the previous question (3.4 Socio-economic objective) there is a percentage of expenditure on R&D in point 7. **Protection and improvement of human health**, please indicate the expenditure, according to the Autonomous City and Community in which the health research is carried out.

(The percentage from point 7. **Protection and improvement of human health**, multiplied by the total research expenditure of the centre, must be equal to the expenditure on research in the protection and improvement of human health)

Autonomous Community	Amount (euros without decimals)
1. Andalucía	
2. Aragón	
3. Asturias, Principado de	
4. Balears, Illes	
5. Canarias	
6. Cantabria	
7. Castilla y León	
8. Castilla-La Mancha	
9. Cataluña	
10. Comunitat Valenciana	
11. Extremadura	
12. Galicia	
13. Madrid, Comunidad de	
14. Murcia, Región de	
15. Navarra, Comunidad Foral de	
16. País Vasco	
17. Rioja, La	
18. Ceuta	
19. Melilla	
Total expenditure on research in the protection and improvement of human health	

3.6 Research grants

Please estimate the total value of the grants received in the year 2011 by the research interns listed in section 2.1, regardless of the type of grant and the organisation that has granted it to them. This figure must be included in the remuneration of researchers from question 3.1.

	Amount (euros without decimals)
1. Research grants	1

3.7 Type of research

Please break down, as a percentage, the CURRENT internal expenditure on R&D that the organisation or centre has incurred in 2011, according to the following classification (do not write decimals, and check that the sum of the column is 100%).

1. Fundamental or basic research	1				%
2. Applied research	2				%
3. Experimental research	3				%
TOTAL		1	0	0	%

3.8 Internal R&D activities anticipated for 2012

	Staff on FTE* (1 decimal)	Internal expenditure on R&D (euros without decimals)
Resources anticipated for the year 2012 _____	_____	_____

(*) FTE: Full-time equivalent.

3.9 Purchase of external R&D services in 2011

This is caused by the acquisition of R&D services outside of the organisation or centre, via contract, agreement, etc. It does not include institutional quotas for financing other public or private organisations, ... not implying a direct purchase of R&D.

	Amount (euros without decimals)
A. Purchase of R&D services in Spain (without VAT)	
- From companies _____	1 _____
- From Public Administration bodies _____	2 _____
- From universities _____	3 _____
- From Private Non-Profit Institutions _____	4 _____
B. Purchase of R&D services abroad (without taxes)	
- From foreign companies _____	1 _____
- From foreign public administrations _____	2 _____
- From foreign universities _____	3 _____
- From foreign Private Non-Profit Institutions _____	4 _____
- From other international organisations _____	5 _____
C. Total purchase of R&D services (A+B) _____	_____

4. Activities based on biological sciences and technologies in 2011

Biotechnology is the application of science and technology to living organisms, as well as to their parts, products and models, in order to alter living or inert material, for the purpose of producing knowledge, goods and/or services.

1. Does the centre carry out any activity based on science and technology applied to living organisms or compounds obtained from them, for the purpose of obtaining knowledge or products of value (including biocomputing and nanobiotechnology)?

YES ☐ NO ☐ Go to section
↓ 5

If the answer is YES, please complete the Biotechnology Use Module

2. Please indicate the resources dedicated to activities based on biological sciences and technologies

The full-time equivalent (FTE) is the sum of the staff that works full-time and the fractions of time that the part-time staff works on activities based on biological sciences and technologies.

	Staff	Staff on FTE (1 decimal)	Total expenditure (euros without decimals)		
	Total	Women	Total	Women	
Resources used:	_____	_____	_____	_____	_____

5. In 2011, did the organisation carry out any internal R&D activity using or containing free software?

Free software refers to that software that respects the freedom of users over the acquired product, and therefore, once obtained, it can be freely used, copied, studied, exchanged and redistributed.

YES ☐ NO ☐

6. How long did it take to complete this questionnaire?

Including the time required to collect the information necessary to do so

____ Hours

Observations

The National Statistics Institute would like to thank you for your cooperation

Development (R&D) Activities

1.1 Basic definitions

Scientific research and experimental development (R&D) is comprised of the creative work carried out systematically in order to increase the volume of knowledge, including the knowledge of man, culture and society, and the use of this knowledge to create new applications.

The criterion *referring to creative work carried out systematically* is met by **projects with specific objectives and a budget**.

The term R&D comprises three activities: basic research, applied research and experimental research:

- **Basic research** consists of experimental or theoretical work that is mainly undertaken to obtain new knowledge on the essentials of observable phenomena and facts, without considering giving them any particular application or use whatsoever.

- **Applied research** also consists of the original work carried out to acquire new knowledge; however, it is mainly directed towards a specific practical objective.

- **Experimental development** consists of systematic work based on existing knowledge, obtained from the research and/or practical experience, aimed at the production of new materials, products or devices; at the establishment of new processes, systems and services, or at the substantial improvement of those already existing.

A **criterion** that allows R&D to be distinguished from other related activities is the existence, within the core of R&D, of an appreciable element of innovation and the resolution of a scientific and/or technological uncertainty; in other words, R&D appears when the solution to a problem is not evident to someone who is perfectly aware of the set of knowledge and basic techniques customarily used in the sector at hand.

Not constituting R&D are those activities that do not contain an appreciable element of innovation, as well as those routine activities that do not imply the resolution of a scientific or technological uncertainty.

1.2 Staff in R&D

All staff directly employed in R&D must be accounted for, as well as those persons who provide services directly related to R&D activities, such as directors, administrators and office staff.

Researchers are professionals who work on the conception or creation of new knowledge, products, processes, methods and systems, and on the management of their respective projects (it includes postgraduate students and interns who carry out R&D activities).

Technicians and/or similar personnel are persons whose main tasks require technical knowledge and experience in one or various fields of engineering, physical and life sciences, or social sciences and humanities. They participate in R&D, carrying out scientific and technical tasks that require the application of operational methods and principles, generally under the supervision of researchers.

Assistants (remaining staff) include workers, both qualified and unqualified, and secretaries and office staff, who participate in the execution of the R&D projects, or who are directly related to the execution of said projects.

1.3 Staff in R&D on FTE

The staff on full-time equivalent (FTE) is the sum of the staff that works full-time and the fractions of time that the part-time staff works on R&D activities. Therefore, a person dedicated full-time to R&D shall be counted as 1, and a person who dedicates 20% of their time to R&D shall be counted as 0.2. If someone works for three months full-time during the year, s/he will be counted as 0.25, as this is one-quarter of the year. If a person works for part of the year full-time, and part of the year part-time, an estimation of the annual dedication to R&D will be calculated with a weighting (if s/he is, for example, 3 months full-time and 9 months 20% dedicated to R&D, then we calculate: $0.25 \times 1 + 0.75 \times 0.2 = 0.4$).

1.4 Examples of R&D in exact and natural sciences and engineering

- The study of chemical reactions. The attempt to optimise one of these reactions. The experimental development for a

"greater scale" repetition of the process optimised in the laboratory.

- Determining the sequences of amino acids of a molecule. The research undertaken in order to distinguish between the antibodies of different illnesses. The experimental development for searching for a method of synthesising the antibody of a given illness.

-The activities of scientific and technical services and integrated libraries in research laboratories when they are predominantly aimed at researchers in those laboratories.

- The production of new theorems or algorithms in the theoretical field of Computational Sciences.

- The development of Information technologies at a level of operative systems, data processing programming languages, communications software and software development or Internet technology development tools

- The researching of methods for the design, development, effective use and maintenance of the software. The development of software that causes advances in general approximations of the collection, transmission, storage, recovery, handling or visualisation of information.

- R&D on tools or technologies in specific computational areas (image processing, geographical representation of data, character recognition, artificial intelligence and other areas).

1.5 Examples of R&D in agrarian sciences

The research in agrarian sciences encompasses the promotion of agriculture, forests, fishing and food production.

- The research in chemical fertilisers, biological pest control and the mechanisation of agriculture.

- The research on the impact of agricultural and forestry activities on the environment.

- The research in the development of food productivity and technology

1.6 Examples of R&D in social sciences and humanities

- The study of the variables that influence the school results of children belonging to different social and ethnic groups. The study of the reading process in adults and children, in order to develop a new method for teaching adults and children to read

- The study of the structure and socio-occupational mobility of a society. The development of a model that uses the data obtained for the purpose of foreseeing the future consequences of recent trends in social mobility.

- The research of new types of insurance contract to cover market risks. The research into new types of means for saving. The development of a new method for managing an investment fund.

- The analysis of regional variations or other types existing in the use of a language, for the purpose of determining the influence of geographical or social variables in its development.

- The study of specific aspects of a particular language, such as syntax, semantics, phonetics, phonology, social or regional variations, etc.

- The study of sources of all types (manuscripts, monuments, art works, buildings, etc.) in order to gain a better understanding of historical phenomena

- The statistics institutes carry out research activities on the conceptual and methodological work regarding the development of completely new or substantially modified statistical surveys and systems. The modifications to established methodologies, or the development of new methodologies, often requires a considerable amount of research.