



Research and development (R&D) (in companies)

Questionnaire code: 11342022

Submitted in: 05.08.2022, data about 2021

Period:

Periodicity: Annual

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Statistics Estonia guarantees the full protection of data submitted.

Economic unit
Registry code:
Name:

E-mail:
Phone:

Postal address
County:
City / Rural municipality:
Village / Town / City district:
Secondary address unit:

Street:
Building:
Apartment:
Postal code:

Economic activity in the sample

Completed by
Personal ID code:
Firstname and surname:

E-mail:
Phone:

Completed on (date):

Signature:

1.0. GENERAL DATA

If the main goal is to technically improve a product or process, the performed work is classified as R&D. If a product, process or an approach is developed and the main goal of the work is market expansion, pre-production planning or the smooth work of the control system, the activity is not classified as R&D.

		Answer
Number of persons employed at the end of the reference period	RD_EMP_P	1
Did the company spend any funds on internal R&D in the reference year? If the company only outsourced the respective service, the answer to this question is no.	0_2	1 - Yes 2 - No
IF THE ANSWER IS NO, PROCEED WITH TABLE 6 ON THE LAST PAGE.	x	

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1.1. EMPLOYEES ENGAGED IN RESEARCH AND DEVELOPMENT BY EDUCATION AND SEX AND WORKING TIME SPENT ON RESEARCH AND DEVELOPMENT

Number of employees engaged in R&D includes people who are directly related to such activities and spend at least 10% of their working time on the said activities. In columns 1–7, indicate the number of such employees by level of education, sex and category. In column 8, indicate the working time spent on R&D in the reference year in full-time years by category (without the estimated distribution by sex).

		Doctor	Master	Academic higher education	Professional higher education	Secondary education, vocational secondary education	Without secondary education	Total number of employees related to R&D activities at the end of the reference year	Total number of men and women who were engaged in R&D, in full-time equivalents (with the precision of 0.01)
		1	2	3	4	5	6	7	8
Scientists and engineers, M	01					x	x	sum of columns 1...4 of the same row	x
Scientists and engineers, F	02					x	x	sum of columns 1...4 of the same row	
Technicians, M	03							sum of columns 1...6 of the same row	x
Technicians, F	04							sum of columns 1...6 of the same row	
Assistant personnel, M	05							sum of columns 1...6 of the same row	x
Assistant personnel, F	06							sum of columns 1...6 of the same row	

1.2. NUMBER OF SCIENTISTS AND ENGINEERS AT THE END OF THE REFERENCE YEAR

Distribution of scientists and engineers engaged in R&D by age at the end of the reference year. The number of male and female scientists in column 1 equals to the numbers in Table 1.1 column 7 rows 1 and 2.

		Total scientists and engineers	incl. up to 25-year-olds	incl. 25–34-year-olds	incl. 35–44-year-olds	incl. 45–54-year-olds	incl. 55–64-year-olds	incl. 65-year-olds and older
		1	2	3	4	5	6	7
Men	1	sum of columns 2...7 of the same						

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Women	2	row sum of columns 2...7 of the same row						
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1.3. EMPLOYEES ENGAGED IN RESEARCH AND DEVELOPMENT IN THE COMPANY BY LEVEL OF EDUCATION AT THE END OF THE REFERENCE YEAR

		Women 1	Men 2	Total 3
Doctor	60	sum of rows 02, 04, 06 of column 1 of Table 1.1	sum of rows 01, 03, 05 of column 1 of Table 1.1	sum of columns 1 and 2 of the same row
Master	61	sum of rows 02, 04, 06 of column 2 of Table 1.1	sum of rows 01, 03, 05 of column 2 of Table 1.1	sum of columns 1 and 2 of the same row
Academic higher education	62	sum of rows 02, 04, 06 of column 3 of Table 1.1	sum of rows 01, 03, 05 of column 3 of Table 1.1	sum of columns 1 and 2 of the same row
Professional higher education	63	sum of rows 02, 04, 06 of column 4 of Table 1.1	sum of rows 01, 03, 05 of column 4 of Table 1.1	sum of columns 1 and 2 of the same row
Vocational secondary and secondary education	64	sum of rows 04 and 06 of column 5 of Table 1.1	sum of rows 03 and 05 of column 5 of Table 1.1	sum of columns 1 and 2 of the same row
Without vocational secondary education	65	sum of rows 04 and 06 of column 6 of Table 1.1	sum of rows 03 and 05 of column 6 of Table 1.1	sum of columns 1 and 2 of the same row
Total	66	sum of rows 60...65 of the same column	sum of rows 60...65 of the same column	sum of rows 60...65 of the same column

2.1. COSTS ON INTERNAL RESEARCH AND DEVELOPMENT

When making an assessment, keep in mind that it is only the share of R&D costs in total costs. Hence, the labour costs of R&D employees only include the working time spent on R&D. In Table 5, the total sums of indicated costs are divided by the source of funding.

		Costs, euros
		1
Total current costs	x07	x
..labour costs (salary expenses, social tax and unemployment insurance premium)	07	
..material, purchased products and semi-finished products	08	
..R&D works and services purchased in the framework of internal R&D projects	09	
..maintenance of buildings and facilities	10	
..other current expenses related to R&D	11	
Internal R&D related investments into non-current assets	x12	x
..acquisition and building of buildings and facilities	12	
..acquisition of equipment, apparatus, machinery, inventory and means of transport	13	
....acquisition of computers and computer systems (of items indicated on row 13)	13A	
..repair and restoration of non-current assets	14	
..acquisition of intangible fixed assets (software, patents, licences)	15	
....acquisition of computer software	15A	
..other investments related to R&D	16	
Internal R&D costs: total current costs and investments into non-current assets	17	sum of rows 07...11, 12, 13, 14, 15, 16

2.2. COSTS ON EXTERNAL RESEARCH AND DEVELOPMENT (except activities indicated on row 09)

This category also includes costs for sponsorship and support with the target goal as R&D. To avoid double counting, exclude the costs indicated on row 09 of Table 2.1. In Table 5, the total sums of the costs indicated in the table are divided by the source of funding.

		Costs, euros
		1
R&D works ordered from Estonia	x18	x
..from other companies	18	
..from institutions of higher education or their research organisations	19	

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..from state or municipality authorities, except institutions of higher education	20	
..from non-profit organisations and foundations, except institutions of higher education	21	
R&D works ordered from foreign countries	x22	x
..from companies	22	
..from institutions of higher education or their research organisations	23	
..from state or municipality authorities, except institutions of higher education	24	
..from non-profit organisations and foundations, except institutions of higher education	25	
Other external R&D costs (sponsorship, support for research units, etc.)	26	
Total	27	sum of rows 18...21, 22...26

3.1. SHARES OF COSTS ON TYPES OF INTERNAL RESEARCH AND DEVELOPMENT

By type, R&D is divided into three: basic research – original surveys for obtaining new knowledge without the aim of immediate implementation of such knowledge; applied research – original surveys with the aim to apply them in one specific field; experimental development – systematic work conducted based on the basic and applied research for developing a new or improved product, process, system or equipment.

		Share of costs in internal R&D, % (write number without percent sig)
		1
Basic research	28	
Applied research	29	
experimental development – development of a new product, material or service or improving an existing one	30	
experimental development – development of a new technological process or system or improving an existing one	31	
experimental development works which are not directly related to products or technology	32	
Total (the sum of the shares of costs must be 100)	33	sum of rows 28...32

3.2. SHARE OF INTERNAL BIOTECHNOLOGICAL RESEARCH AND DEVELOPMENT

Biotechnology is the application of science and technology in different areas on live organisms and parts thereof, products or models with the aim to make living or inanimate material into knowledge, products or services.

		Share of costs in internal R&D, % (write number without percent sig)
		1
Share of biotechnological research and development (cannot be larger than 100)	33_1	

5. FUNDING OF RESEARCH AND DEVELOPMENT COSTS

In Table 5, divide the total sums of costs indicated in Table 2.1 by source of funding. Support from the EU, international organisations, foreign countries and non-governmental organisations of foreign countries granted through the state budget or through a state funded foundation is not considered support from foreign sources.

		Internal R&D (from Table 2.1), euros
		1
Internal funding, except loans from non-budgetary foundations and funds	40	
Loans from non-budgetary foundations and funds	x41	x
..Enterprise Estonia	41	
..Foundation Kredex	42	
..Estonian Rural Development Foundation	43	
..other	44	
..other (indicate the name of the funding source)	44_1	
External funding (support, targeted financing, remuneration for ordered works)	x45	x
..Estonian Research Council	45	
..Enterprise Estonia	46	
..other foundations and funds intended for financing	47	

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activities		
..ministries, authorities, state authorities, except institutions of higher education	48	
..rural municipalities/cities, municipality authorities	49	
..Institutions of higher education or their research organisations	50	
..non-profit organisations and foundations, except institutions of higher education and financing foundations listed on rows 45–47	51	
..Estonian companies	52	
..foreign companies	53	
..foreign funds and endowments	54	
..European Union research grants	55	
..other foreign funding	56	
..other source of funding	57	
..other source of funding (indicate the name of the funding source)	57_1	
TOTAL COSTS Row 58 must be equal to row K_58	58	sum of rows 40...57_1
To column 1, the value is displayed from Table 2.1 row 17	K_58	value from Table 2.1 row 17

6. RESEARCH AND DEVELOPMENT PLANNED FOR THE CURRENT YEAR (2022)

		Answer
Did the company spend any funds on internal R&D in the reference year? If the company only outsourced the respective service, the answer to this question is no.	6_01	1
Planned estimated R&D costs for the current year, euros	6_02	1 - Yes 2 - No

7. TIME SPENT ON FILLING OUT THE QUESTIONNAIRE

Please estimate how much time you spent on filling out the questionnaire (incl. time spent on reading the instructions, collecting and preparing data). Record the total time spent by all employees.

	Time spent
Hours	
Minutes	
For example, if it took 1.5 hours, i.e. 90 minutes, to fill in the questionnaire, enter 1 on the hours row and 30 on the minutes row.	

Info

Your enterprise has received funding from Structural Funds or from Horizon Framework Programme for Research and Innovation, or your enterprise is a partner in technology development centres, or you answered "Yes" to the question "Does your enterprise employ research and development personnel?" in EKOMAR questionnaire.

	Indicator
Kontrolliinfo	

COMMENT