

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

Questionnaire code: 11342023

Submitted in: 05.08.2023, data about 2022

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
		1
Number of persons employed at the end of the reference period	1	
Did the company spend any funds on internal R&D in the reference year?	2	1 - Yes 2 - No
If the enterprise only outsourced the respective service, the answer to this question is NO.	3	
If the answer is NO, proceed with table 5 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).

		Total number of male and female researchers and engineers	.. women	TOTAL number of male and female other R&D personnel (technicians, support staff)	.. women	TOTAL male and female R&D personnel	.. women
		1	2	3	4	5	6
Doctor	1						
Master's degree, academic higher education, professional higher education	2						
Secondary education, professional secondary education, without secondary education	3	x	x				
TOTAL R&D personnel	4						

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1.2. EMPLOYEES ENGAGED IN RESEARCH AND DEVELOPMENT IN THE COMPANY BY LEVEL OF EDUCATION AT THE END OF THE REFERENCE YEAR

Working time spent on R&D in full-time years in the reference year (estimate). The difference between Table 1.1 and Table 1.2 is that Table 1.2 also takes into account the working time spent on R&D by those employees who are no longer employed at the end of the year or who spent less than 10% of their working time on R&D. In other words, all working time spent on R&D in the reference year is taken into account.

		Number of employees in full-time equivalents
		1
Researchers and engineers, men and women, total	1	
.. women	2	
Other R&D personnel (technicians, support staff), men and women, total	3	
.. women	4	
TOTAL employees engaged in R&D	5	
.. TOTAL women	6	

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2. RESEARCHERS AND ENGINEERS BY AGE AT THE END OF THE REFERENCE YEAR

Age distribution of researchers and engineers at the end of the reference year. The total number of researchers and engineers must be equal to the corresponding number in Table 1.1.

		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
TOTAL	1							
.. women	2	sum of columns 2...7 of the same row						

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3. COSTS OF INTERNAL RESEARCH AND DEVELOPMENT

The costs should be estimated taking into account only the share of total costs that is related to R&D. Thus, the labour costs of employees engaged in R&D should reflect only the working time spent on R&D.

		Costs, euros
		1
Internal R&D costs: TOTAL current costs	1	
.. labour costs (salary expenses, social tax and unemployment insurance premium)	2	
..R&D costs– other current expenses	3	
Internal R&D costs: TOTAL investments (rows 5+6+8+9)	4	
..acquisition, construction and capital repairs of buildings and facilities	5	
.. acquisition of equipment, apparatus, machinery, inventory and means of transport	6	
... acquisition of computers and computer systems (of items indicated on row 13)	7	
.. acquisition of intangible fixed assets (software, patents, licences)	8	
.. other investments related to R&D	9	
Internal R&D costs: TOTAL current costs and investments into non-current assets (rows 1+4)	10	

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

R&D costs are divided into three types: 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 such knowledge in one specific field or for a specific purpose; experimental development – systematic work which is conducted based on the knowledge from basic and applied research for developing a new or improved material, product, process, system or service.

		Costs, euros
		1
Basic research	1	
Applied research	2	
experimental development – development of a new product, material or service or improving an existing one	3	
TOTAL rows 1-3	4	

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.

		Costs, euros
		1
R&D costs by type of R&D: in the field of biotechnology, TOTAL	1	

3.3 SHARE OF INTERNAL NANOTECHNOLOGICAL RESEARCH AND DEVELOPMENT

		Costs, euros
		1
R&D costs by type of R&D: in the field of nanotechnology, TOTAL	1	

4. FUNDING OF INTERNAL R&D COSTS IN THE REFERENCE YEAR

In Table 4, the total costs indicated in Tables 3 and 3.1 are distributed by source of funding. Support from the EU, international organisations, foreign countries and non-governmental organisations of foreign countries granted through the state budget is considered funding from the state, not funding from foreign sources.

		Costs, euros
		1
Funding from Estonian sources	1	x
Funding of R&D costs: enterprise's own funds	2	

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Funding of R&D costs: state funds	3	
Funding of internal R&D costs: higher education institutions and their research organisations	4	
Funding of internal R&D costs: non-profit organisations and foundations	5	
Funding of internal R&D costs: Estonian companies	6	
Funding from foreign sources	7	x
Funding of internal R&D costs: foreign companies	8	
Funding of internal R&D costs: foreign funds and endowments	9	
Funding of internal R&D costs: European Union research grants	10	
Funding of internal R&D costs: other foreign funding	11	
TOTAL funding of internal R&D (equal to Table 3 row 10)	12	
The value of row 10 in table 3	x	

5. RESEARCH AND DEVELOPMENT PLANNED FOR THE CURRENT YEAR

		Answer
		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.	1	1 - Yes 2 - No
Planned estimated R&D costs for the current year, euros	2	

6. 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.

	Hours	Minutes
Time spent		
Please indicate the hours and minutes separately. For example, if it took 1.5 hours (i.e. 90 minutes) to complete the questionnaire, you should enter 1 in the hours field and 30 in the minutes field.		

Info

Your enterprise has received support from the grant programmes of Enterprise Estonia, or from the EU's research and innovation funding programme Horizon Europe, or from other publicly financed funds; or you answered 'Yes' to the question "Does your enterprise employ research and development personnel?" in the EKOMAR questionnaire. Therefore, you should indicate costs in Table 2.1.

	Indicator
Info: 1 = YES; Empty = NO	
2x	
3x	
ESTAT	
ESTAT_1	

Feedback to the questionnaire

Dear Respondent!	
This is where we ask for your direct feedback.	
Please assess the statements below on a scale of 1 to 5, with 1 being the lowest and 5 being the highest.	
NB! These questions apply to the current questionnaire.	
Providing feedback is voluntary. Thank you!	

Y1. Assessment on a scale of 1 to 5

	Assessment on a scale of 1 (strongly
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	disagree) to 5 (strongly agree)
Wording of questions was comprehensible.	1 - 5 2 - 4 3 - 3 4 - 2 5 - 1 6 - Do not know
Wording of error messages or controls was comprehensible, and they were helpful for finding and fixing errors.	1 - 5 2 - 4 3 - 3 4 - 2 5 - 1 6 - Do not know
The manual (accessible from the questionnaire header: "Show more" -> "View the instructions" -> "Questionnaire manual") was easy to understand and helpful	1 - 5 2 - 4 3 - 3 4 - 2 5 - 1 6 - Do not know
Explanatory texts (appearing when the mouse cursor hovers over them) of the questionnaire were comprehensible and helpful.	1 - 5 2 - 4 3 - 3 4 - 2 5 - 1 6 - Do not know
Pre-filled fields (text boxes with pre-existing data) simplified and sped up the completion of the questionnaire.	1 - 5 2 - 4 3 - 3 4 - 2 5 - 1 6 - Do not know
eSTAT environment was user-friendly for completing the questionnaire (e.g. all the tables properly fit on the screen).	1 - 5 2 - 4 3 - 3 4 - 2 5 - 1 6 - Do not know

Y2. Overall assessment on the questionnaire

	Answer
Please give an overall assessment on completing the questionnaire.	10 - Very easy 20 - Easy 30 - Average (neither easy nor difficult) 40 - Difficult 50 - Very difficult

Y3. Suggestions and comments (200 characters max)

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COMMENT