Contact person: Help desk (contact centre) / Phone: 6259 300 / E-mail: klienditugi@stat.ee / Postal address: Vabaduse plats 2, 71020 Viljandi

Statistical activity code: 21701

Research and development (R&D)

Questionnaire code: 11332023 Submitted in: 1.03.2023, data about 2022

Period: Periodicity: Annual

Statistics Estonia guarantees the full protection of data submitted.

Economic unit
Registry code: **E-mail:**
Name: **Phone:**

Postal address
County: **Street:**
City / Rural municipality: **Building:**
Village / Town / City district: **Apartment:**
Secondary address unit: **Postal code:**

Economic activity in the sample

Completed by
Personal ID code: **E-mail:**
Firstname and surname: **Phone:**

Completed on (date): **Signature:**

0.1. GENERAL DATA

		Answer
		1
Did the institution/organisation have any R&D expenditures in the reference year?	1	1 - Yes 2 - No
If the answer is NO, please proceed to Table 11	2	

1. NUMBER OF PERSONS EMPLOYED AT THE END OF THE REFERENCE YEAR

At the end of the reference year does not necessarily mean as at the last working day of the year, but a day in the second half of December, when the necessary data is available.

		Number of persons employed	incl. number of employees engaged in R&D
		1	2
TOTAL	1		

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1.1. EMPLOYEES ENGAGED IN RESEARCH AND DEVELOPMENT BY SCIENTIFIC AREAS AT THE END OF THE REFERENCE YEAR

List all persons who worked for the organisation at the end of the reference year and were engaged in R&D in the extent of at least 10% of their working time.Only indicate data about those people in the table, who were indicated in column 2 of Table 1. Doctoral and master's students are reflected in the report together with scientists and engineers, provided that they get remuneration for R&D.

		Natural sciences	Engineering sciences	Medical science	Agricultural sciences	Social sciences	Humanities	TOTAL	Data from table 5. Displayed after saving.
		1	2	3	4	5	6	7	8
Scientists and engineers	1								
.. women	2							sum of columns 1...6 of the same row	
Technicians	3								
.. women	4								
TOTAL assistant personnel	5								
TOTAL assistant personnel, women	6								

1.2. NUMBER OF EMPLOYEES ENGAGED IN RESEARCH AND DEVELOPMENT IN THE REFERENCE YEAR IN FULL-TIME EQUIVALETNS

Unlike in Table 1.1, Table 1.2 also lists the working time spent on R&D by those employees who do not work any more at the end of the year or for whom the share of R&D in their work was below 10%. In other words – indicate all working time spent on R&D in the reference year. Working time spent on R&D by one employee can be divided by areas for Table 1.2. The data about the employee may be estimated.

		Natural sciences	Engineering sciences	Medical science	Agricultural sciences	Social sciences	Humanities	Total
		1	2	3	4	5	6	7
Scientists and engineers	1							
.. women	2							sum of columns 1...6 of the same row
Technicians	3							
.. women	4							
TOTAL R&D personnel in full-time equivalents (autosum of rows 1+3)	5							
TOTAL FEMALE R&D personnel in full-time equivalents (autosum of rows 2+4)	6							

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

Data about the level of education of employees based on the document indicating the highest level of education. On row 8, the sums in columns 1–6 must correspond to the data indicated in Table 1.1 column 7.

		Scientists and engineers, men	.. cientists and engineers, women	Technicians	.. technicians, women	TOTAL R&D personnel by level of education (autosum of columns 1+3)	TOTAL women
		1	2	3	4	5	6
Doctor	1						
Master	2						
Vocational secondary education	3	x	x				
TOTAL	4						

3. RESEARCHERS AND ENGINEERS BY AGE AT THE END OF THE REFERENCE YEAR (The table does not include data on other R&D personnel (technicians, support staff))

Distribution of scientists and engineers by age. Total numbers of female and male scientists must correspond to the data indicated in previous tables. The table does not include data about technicians or assistant personnel. Total number of (fe)male scientists and engineers by age in column 1 must correspond to the data indicated in Table 1.1 column 7 row 1 (2).

		Total scientists and engineers	.. up to 25-year-olds	.. 25–34-year-olds	.. 35–44-year-olds	.. 45–54-year-olds	.. 55–64-year-olds	.. 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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4. RESEARCHERS AND ENGINEERS BY FIELD OF SCIENCE AT THE END OF THE REFERENCE YEAR (The table does not include data on other R&D personnel (technicians, support staff))

Division of scientists and engineers by scientific degree, scientific areas are determined by the main activities of the employee like in Table 1.1, not by the specialty of the scientific degree or diploma. The table does not include data about technicians or assistant personnel. Column 1 and 2 are prefilled with data from Table 1.1. On row 7, the sums in columns 1–6 must correspond to the data indicated in Table 2 columns 1–2.

		TOTAL Researchers and engineers who have a doctoral degree	.. doctors, women
		1	2
Natural sciences	1		
Engineering sciences	2		
Medical science	3		
Agricultural sciences	4		
Social sciences	5		
Humanities	6		
TOTALI	7		sum of rows 1...6 of the same column

5. SCIENTISTS AND ENGINEERS WITH FOREIGN CITIZENSHIP BY SEX

Please note that foreign researchers indicated in Table 5 must also be included in tables 1, 1.1, 1.2, 2, 3 and 4.
Data about scientists and engineers with foreign citizenship by countries and sex. If filled in online, choose the name of the country from the list of countries.

Record no	Country code and name	Total	inc. women
	1	2	3
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			

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6. COSTS ON RESEARCH AND DEVELOPMENT BY SOURCES OF FUNDING AND SCIENTIFIC AREAS, EUROS

R&D costs by sources of funding and scientific areas. Five main sources of R&D funding are distinguished: state, companies, non-profit private sector, universities and higher education institutions and foreign sources. Financial data is indicated in euros without decimals.

		Total costs	Country	Companies	Non-profit private sector	Universities and higher education institutions	Foreign sources
		1	2	3	4	5	6
Natural sciences	1	sum of columns 2...6 of the same row					
Engineering sciences	2	sum of columns 2...6 of the same row					
Medical science	3	sum of columns 2...6 of the same row					
Agricultural sciences	4	sum of columns 2...6 of the same row					
Social sciences	5	sum of columns 2...6 of the same row					
Humanities	6	sum of columns 2...6 of the same row					
TOTAL	7	sum of rows 1...6 of the same column	sum of rows 1...6 of the same column	sum of rows 1...6 of the same column	sum of rows 1...6 of the same column	sum of rows 1...6 of the same column	sum of rows 1...6 of the same column

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7. COSTS ON RESEARCH AND DEVELOPMENT BY NATIONAL AND FOREIGN SOURCES OF FUNDING

In detail, indicate the R&D costs funded from national or foreign sources. The total sums must correspond to those indicated in Table 6. Support from the EU, international organisations, foreign countries and non-governmental organisations of foreign countries granted through the state budget is considered support from the state, not from foreign sources.

		Total costs, euros
		1
STATE FUNDS	x	
Funding of R&D costs: state funds – from the budget of Ministry of Education and Research	1	
Funding of R&D costs: state funds – ministries (except Ministry of Education and Research), publicly financed funds, foundations	2	
Rural municipalities/cities, municipality authorities	3	
From own funds (public sector institutions)	4	
TOTAL state funds	5	
FOREIGN SOURCES	xx	
European Union research grants	7	
Foreign companies	8	
Foreign funds and endowments	9	
Other foreign funding	10	
TOTAL foreign sources (value displayed from rows 7...10)	11	

8. COSTS ON RESEARCH AND DEVELOPMENT BY TYPE OF COSTS, EUROS

R&D costs by main cost items and types of investment regardless of the source of funding.

		TOTAL
		1
Total costs (prefilled value will be displayed from Table 6 row 7 column 1 after saving)	1	
Labour costs – labour costs of employees directly engaged in R&D, incl. labour costs of master's and doctoral students engaged in R&D	2	
Other current costs	3	
Acquisition, construction and capital repairs of buildings and facilities	4	
Equipment, apparatus, machinery, inventory and means of transport	5	
Other investments, incl. into intangible fixed assets	6	

9. COSTS ON RESEARCH AND DEVELOPMENT BY TYPE OF ACTIVITY BASED ON FIELDS OF APPLICATION, EUROS

R&D costs by the nature of research and scientific areas. See examples from the guide "Determining the type of research and development"

		Total costs	.. on basic research	.. on applied research	.. on experimental development works
		1	2	3	4
Natural sciences	1	sum of columns 2...4 of the same row			
Engineering sciences	2	sum of columns 2...4 of the same row			
Medical science	3	sum of columns 2...4 of the same row			
Agricultural sciences	4	sum of columns 2...4 of the same row			
Social sciences	5	sum of columns 2...4 of the same row			
Humanities	6	sum of columns 2...4 of the same row			
TOTAL	7	value from Table 6 row 7 column 1	sum of rows 1...6 of the same column	sum of rows 1...6 of the same column	sum of rows 1...6 of the same column

10. COSTS ON RESEARCH AND DEVELOPMENT BY FIELDS OF APPLICATION, EUROS

R&D costs are divided by fields of application, separating the activities funded by state resources, and keeping in mind the purpose of the

funding of the survey. Field of application is not determined (row 13) for surveys which are conducted for increasing knowledge, but which cannot be connected with a specific application, and for which the field of application was also not determined when funds were allocated.

		Total costs	.. funded from state funds
		1	2
Agriculture, forestry, fishing	1		
Industrial production and technology	2		
Generation, distribution and rational use of energy	3		
Transport, telecommunication and other infrastructures	4		
Protection of the environment	5		
Health sciences	6		
Culture, spare time, religion and media	7		
Education	8		
Political and social systems, structures and processes	9		
Studies and use of earth's crust, hydrosphere and atmosphere	10		
Space exploration and capture	11		
National defence	12		
Application not specified	13		
Total. Row K_14 must be equal to row 14	K_14	sum of rows 1...13 of column 1	sum of rows 1...13 of column 2
TOTAL COSTS (prefilled value will be displayed from Table 6 row 7 after saving)	14	value from Table 6 row 7 column 1	value from Table 6 row 7 column 2

11. TIME SPENT ON FILLING OUT THE QUESTIONNAIRE (incl. for preparing the data)

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.		

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 disagree) to 5 (trongly 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

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	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)

COMMENT