

Controls and autosums in questionnaire: Research and development (R&D)

Code of the questionnaire: 11332026
Periodicity: Annual

Is submitted: 1.03.2026, data about 2025

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Statistics Estonia guarantees the full protection of data submitted.

If the data you entered are inconsistent internally or with the prefilled data, an error message appears upon checking. If errors and warnings appear, check the data carefully and make corrections.

CONTROLS

Controls in table 1.1. EMPLOYEES ENGAGED IN RESEARCH AND DEVELOPMENT BY LEVEL OF EDUCATION AND POST AT THE END OF THE REFERENCE YEAR

Control ID	Control formula	Clarification	Type of error
18753	{RD_RESF_SCF}<={RD_RESMF_SCF}	The number of female researchers at the end of the reference year cannot be larger than the total number of researchers and engineers at the end of the reference year.	Error
20026	{RD_OTHF_SCF}<={RD_OTHMF_SCF}	The number of other female research and development personnel cannot be larger than the total number of other research and development personnel at the end of the reference year.	Error
33356	{RD_RESMF_DOC}<={RD_RESMF_SCF}	The number of researchers and engineers with doctoral degrees cannot be larger than the total number of researchers and engineers at the end of the reference year.	Error

Controls in table 2. RESEARCHERS AND ENGINEERS BY FIELD OF SCIENCE AT THE END OF THE REFERENCE YEAR

Control ID	Control formula	Clarification	Type of error
33374	{RD_RESMF_NAT}>={RD_RESF_NAT}	The number of female researchers in natural sciences cannot be larger than the total number of researchers and engineers in natural sciences at the end of the reference year.	Error
33384	{RD_RESMF_ENG}>={RD_RESF_ENG}	The number of female researchers in engineering and technology cannot be larger than the total number of researchers in engineering and technology at the end of the reference year.	Error
34155	{RD_RESMF_MED}>={RD_RESF_MED}	The number of female researchers in medical and health sciences cannot be larger than the total number of researchers in medical and health sciences at the end of the reference year.	Error
37012	{RD_RESMF_AGR}>={RD_RESF_AGR}	The number of female researchers in agricultural sciences and veterinary cannot be larger than the total number of researchers in agricultural sciences and veterinary at the end of the reference year.	Error
37013	{RD_RESMF_SOC}>={RD_RESF_SOC}	The number of female researchers in social sciences cannot be larger than the total number of researchers in social sciences at the end of the reference year.	Error
37014	{RD_RESMF_HUM}>={RD_RESF_HUM}	The number of female researchers in humanities and the arts cannot be larger than the total number of researchers in humanities and the arts at the end of the reference year.	Error

Controls in table 9. TIME SPENT ON FILLING OUT THE QUESTIONNAIRE (incl. for preparing the data)

Control ID	Control formula	Clarification	Type of
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20296	{TAITMISEAEGMINUTIT}<=59	Maximum permitted value is 59 minutes. Time exceeding 60 minutes shall be indicated in hours and minutes.	error Error
20297	{TAITMISEAEGTUNDI}+{TAITMISEAEGMINUTIT}>0	The time spent on filling in the questionnaire must be recorded and the sum of hours and minutes must be more than 0.	Error
20298	{TAITMISEAEGTUNDI}<=999	Maximum permitted value is 999 hours.	Error

Controls across tables

Control ID	Control formula	Clarification	Type of error
37016	{RD_RESMF_NAT}+{RD_RESMF_ENG}+{RD_RESMF_MED}+{RD_RESMF_AGR}+{RD_RESMF_SOC}+{RD_RESMF_HUM}={RD_RESMF_SCF}	The total number of researchers in different fields of science in Table 2 must be equal to the number of researchers in Table 1.1.	Error
37017	{RD_RESMF_AGE1}+{RD_RESMF_AGE2}+{RD_RESMF_AGE3}+{RD_RESMF_AGE4}+{RD_RESMF_AGE5}+{RD_RESMF_AGE6}={RD_RESMF_SCF}	The total number of researchers and engineers in different age groups in Table 3 must be equal to the number of researchers and engineers in Table 1.1.	Error
37018	((RD_EXP_SCI_BAS}+{RD_EXP_SCI_APP}+{RD_EXP_SCI_EXW})={RD_EXP_NAT_FIN}+{RD_EXP_ENG_FIN}+{RD_EXP_MED_FIN}+{RD_EXP_AGR_FIN}+{RD_EXP_SOC_FIN}+{RD_EXP_HUM_FIN})	The total amount spent on research and development in different types of activities in Table 5 must be equal to the sum of the amounts spent on research and development in different fields of science in Table 4.	Error
37019	((RD_EXP_SCF_GOV}+{RD_EXP_SCF_HES}+{RD_EXP_SCF_BES}+{RD_EXP_SCF_PNP}+{RD_EXP_FOR1}+{RD_EXP_FOR2}+{RD_EXP_FOR3}+{RD_EXP_FOR4})={RD_EXP_NAT_FIN}+{RD_EXP_ENG_FIN}+{RD_EXP_MED_FIN}+{RD_EXP_AGR_FIN}+{RD_EXP_SOC_FIN}+{RD_EXP_HUM_FIN})	The total amount spent on research and development from various sources of funding in Table 6 must be equal to the sum of the amounts spent on research and development in different fields of science in Table 4.	Error
37020	{RD_EXP_LAB_INS}+{RD_EXP_CUR_OTH}+{RD_EXP_BUI_INS}+{RD_EXP_EQU_INS}+{RD_EXP_INV_INS}={RD_EXP_NAT_FIN}+{RD_EXP_ENG_FIN}+{RD_EXP_MED_FIN}+{RD_EXP_AGR_FIN}+{RD_EXP_SOC_FIN}+{RD_EXP_HUM_FIN}	The total amount spent on research and development in different types of costs in Table 7 must be equal to the sum of the amounts spent on research and development in different fields of science in Table 4.	Error
37021	((RD_NABS08}+{RD_NABS06}+{RD_NABS05}+{RD_NABS04}+{RD_NABS02}+{RD_NABS07}+{RD_NABS10}+{RD_NABS09}+{RD_NABS11}+{RD_NABS01}+{RD_NABS03}+{RD_NABS14}+{RD_NABS13})={RD_EXP_NAT_FIN}+{RD_EXP_ENG_FIN}+{RD_EXP_MED_FIN}+{RD_EXP_AGR_FIN}+{RD_EXP_SOC_FIN}+{RD_EXP_HUM_FIN})	The total amount spent on research and development in different fields of application in Table 8 must be equal to the sum of the amounts spent on research and development in different fields of science in Table 4.	Error
37438	{RD_RESMF_FTE_SCF}<={RD_RESMF_SCF}	The number of researchers and engineers in full-time equivalents in Table 1.2 must be equal to or less than the total number of researchers and engineers in Table 1.1.	Error
37439	{RD_OTHMF_FTE_SCF}<={RD_OTHMF_SCF}	The number of other research and development personnel (technicians, support staff) in full-time equivalents in Table 1.2 must be equal to or less than the total number of other research and development personnel (technicians, support staff) in Table 1.1.	Error
37440	((RD_RESMF_FTE_SCF}+{RD_OTHMF_FTE_SCF})<={RD_RESMF_SCF}+{RD_OTHMF_SCF})	The total number of research and development personnel in full-time equivalents in Table 1.2 must be equal to or less than the total number of research and development personnel in Table 1.1.	Error

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AUTOSUMS

Autosums in table 1.1. EMPLOYEES ENGAGED IN RESEARCH AND DEVELOPMENT BY LEVEL OF EDUCATION AND POST AT THE END OF THE REFERENCE YEAR

Row name	Column name	Formula	Clarification
Total employees. Sum displayed after saving.	As a whole number	{RD_RESMF_SCF}+{RD_OTHMF_SCF}	
Total employees. Sum displayed after saving.	incl. with a doctoral degree	{RD_RESMF_DOC}	
	As a whole number	{RD_RESF_SCF}+{RD_OTHF_SCF}	

Autosums in table 1.2. WORKING TIME SPENT ON RESEARCH AND DEVELOPMENT IN THE REFERENCE YEAR IN FULL-TIME EQUIVALENTS

Row name	Column name	Formula	Clarification
Total. Sum displayed after saving.	Number of employees in full-time equivalents	{RD_RESMF_FTE_SCF} + {RD_OTHMF_FTE_SCF}	

Autosums in table 2. RESEARCHERS AND ENGINEERS BY FIELD OF SCIENCE AT THE END OF THE REFERENCE YEAR

Row name	Column name	Formula	Clarification
Total. Sum displayed after saving.	Scientists and engineers, men	{RD_RESMF_NAT}+{RD_RESMF_ENG}+{RD_RESMF_MED}+{RD_RESMF_AGR}+{RD_RESMF_SOC}+{RD_RESMF_HUM}	
Total. Sum displayed after saving.	..incl. women	{RD_RESF_NAT}+{RD_RESF_ENG}+{RD_RESF_MED}+{RD_RESF_AGR}+{RD_RESF_SOC}+{RD_RESF_HUM}	
Prefilling from Table 1.1	Scientists and engineers, men	{RD_RESMF_SCF}	
Prefilling from Table 1.1	..incl. women	{RD_RESF_SCF}	

Autosums in table 3. RESEARCHERS AND ENGINEERS BY AGE AT THE END OF THE REFERENCE YEAR

Row name	Column name	Formula	Clarification
Total. Sum displayed after saving.	Scientists and engineers	{RD_RESMF_AGE1}+{RD_RESMF_AGE2}+{RD_RESMF_AGE3}+{RD_RESMF_AGE4}+{RD_RESMF_AGE5}+{RD_RESMF_AGE6}	
Prefilling from Table 1.1	Scientists and engineers	{RD_RESMF_SCF}	

Autosums in table 4. COSTS ON RESEARCH AND DEVELOPMENT BY FIELD OF SCIENCE, EUROS

Row name	Column name	Formula	Clarification
Total. Sum displayed after saving.	Costs in euros	{RD_EXP_NAT_FIN}+{RD_EXP_ENG_FIN}+{RD_EXP_MED_FIN}+{RD_EXP_AGR_FIN}+{RD_EXP_SOC_FIN}+{RD_EXP_HUM_FIN}	

Autosums in table 5. COSTS ON RESEARCH AND DEVELOPMENT BY TYPE OF ACTIVITY, EUROS

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Row name	Column name	Formula	Clarification
Total. Sum displayed after saving.	Costs in euros	{RD_EXP_SCI_BAS}+{RD_EXP_SCI_APP}+{RD_EXP_SCI_EXW}	
.	Costs in euros	{RD_EXP_SCF_FIN}	

Autosums in table 6. COSTS ON RESEARCH AND DEVELOPMENT BY SOURCE OF FUNDING, EUROS

Row name	Column name	Formula	Clarification
.	Costs in euros	{RD_EXP_SCF_FIN}	
TOTAL funding from Estonian sources	Costs in euros	{RD_EXP_SCF_GOV}+{RD_EXP_SCF_HES}+{RD_EXP_SCF_PNP}+{RD_EXP_SCF_BES}	
Total foreign sources	Costs in euros	{RD_EXP_FORI1}+{RD_EXP_FORI2}+{RD_EXP_FORI3}+{RD_EXP_FORI4}	
Total costs	Costs in euros	{RD_EXP_SCF_GOV}+{RD_EXP_SCF_HES}+{RD_EXP_SCF_PNP}+{RD_EXP_SCF_BES}+{RD_EXP_FORI1}+{RD_EXP_FORI2}+{RD_EXP_FORI3}+{RD_EXP_FORI4}	

Autosums in table 7. COSTS ON RESEARCH AND DEVELOPMENT BY TYPE OF COSTS, EUROS

Row name	Column name	Formula	Clarification
Total costs (prefilled value will be displayed from Table 4 row 7 column 1 after saving)	Costs in euros	{RD_EXP_SCF_FIN}	
Total. Sum displayed after saving.	Costs in euros	{RD_EXP_LAB_INS}+ {RD_EXP_CUR_OTH}+ {RD_EXP_BUI_INS}+ {RD_EXP_EQU_INS}+{RD_EXP_INV_INS}	

Autosums in table 8. COSTS ON RESEARCH AND DEVELOPMENT BY FIELD OF APPLICATION, EUROS

Row name	Column name	Formula	Clarification
Total costs. prefilled value will be displayed from Table 4 row 7 column 1 after saving	Costs in euros	{RD_EXP_SCF_FIN}	
Total costs	Costs in euros	{RD_NABS08}+{RD_NABS06}+{RD_NABS05}+{RD_NABS04}+{RD_NABS02}+{RD_NABS07}+{RD_NABS10}+{RD_NABS09}+{RD_NABS11}+{RD_NABS01}+{RD_NABS03}+{RD_NABS14}+{RD_NABS13}	