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

Code of the questionnaire: 11332026          Is submitted: 1.03.2026, data about 2025
Periodicity:  Annual

Statistics Estonia guarantees the full protection of data submitted.

A field with a grey background has been automatically filled online. The data in this field cannot be changed, they are visible after saving.
If the data you entered are inconsistent internally or with the prefilled data, an error message appears upon checking. If errors (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)**

**Research and development (R&D)**

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| Control ID | Control formula | Clarification | Type of error |
|---|---|---|---|
| 20296 | {TAITMISEAEGMINUTIT}<=59 | Maximum permitted value is 59 minutes. Time exceeding 60 minutes shall be indicated in hours and minutes. | 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. The time spent means time spent by all employees to read questionnaire instructions, collect and prepare data and fill in the questionnaire. | 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_FORI1}+ {RD_EXP_FORI2}+{RD_EXP_FORI3}+{RD_EXP_FORI4}) =({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_O | 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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| THMF_SCF}) | |
|---|---|

**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} | |

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

| 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} | |