

# Research and Development in Sweden 2023 – Non-Profit Organisations

The Organisation for Economic Cooperation and Development (OECD) has produced the following definition of what constitutes R&D to ensure that all organisations, not only nationally but also internationally, report in a manner that is comparable. This definition is to be used throughout the questionnaire when reporting on R&D.

**Research and experimental development (R&D)** comprises creative and systematic work undertaken in order to increase the stock of knowledge and to devise new applications of available knowledge in all fields of science. To be defined as R&D, an activity must be:

- **Novel:** An R&D activity undertaken in order to generate new knowledge and to devise new applications of available knowledge.
- **Creative:** R&D activities based on original concepts or hypotheses.
- **Uncertain:** The final outcome of R&D activities is generally uncertain. There is also uncertainty related to the cost or time needed to achieve the expected results.
- **Systematic:** R&D activities are performed systematically and are planned and budgeted.
- **Transferable and/or reproducible:** An R&D activity should lead to results that could possibly be transferable and/or reproducible.

An organisation's R&D activity can comprise intramural R&D and/or extramural R&D.

**Intramural R&D** refers to all activities that satisfy the definition of R&D activities and are carried out in Sweden by the organisation's own personnel or by consultants in a R&D project led by the organisation. Intramural R&D also includes R&D carried out by commission.

**Extramural R&D** refers to all activities that satisfy the definition of R&D activities and are performed by another party in Sweden or abroad, funded by the organisation. Include contributions that the organisation made to R&D at, for example, universities or other institutions of higher education.

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## A. Funding of extramural R&D in 2023

*Section A only applies to public non-profit organisations.*

The information reported in this section of the questionnaire is important in order to give a fair picture of the R&D system in Sweden and your contribution to the research and development that is financed by organisations in Sweden. The aim is to provide a comprehensive picture of the extramural R&D in all sectors of society, the economic flows between sectors and the directionality of the R&D.

It is voluntary to report on section A, but your contribution is very important.

**Extramural R&D** refers to all activities that satisfy the definition of R&D activities <sup>[1]</sup> and are performed by another party in Sweden or abroad, funded by your organisation. Include contributions that the organisation made to R&D at, for example, universities or other institutions of higher education.

Include all R&D activities performed in 2023. When funds were paid out or will be paid out is irrelevant.

Please, report funding to other R&D performers both where your organisation reserves the rights to the results (exchanges) and where it does not (transfers).

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### A1. Did the organisation fund R&D performed by others in 2023? (optional information)

- Yes
- No

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*If "No", go to section B.*

[1] **Research and experimental development** (R&D) comprises creative and systematic work undertaken in order to increase the stock of knowledge and to devise new applications of available knowledge in all fields of science. To be defined as R&D, an activity must be:

- **Novel:** An R&D activity undertaken in order to generate new knowledge and to devise new applications of available knowledge.
- **Creative:** R&D activities based on original concepts or hypotheses.
- **Uncertain:** The final outcome of R&D activities is generally uncertain. There is also uncertainty related to the cost or time needed to achieve the expected results.
- **Systematic:** R&D activities are performed systematically and are planned and budgeted.
- **Transferable and/or reproducible:** An R&D activity should lead to results that could possibly be transferable and/or reproducible.

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## A2. Extramural R&D in 2023 by recipient (optional information)

Report expenditure on extramural R&D <sup>[1]</sup> that was performed in 2023 allocated by recipient.

When funds were paid out or will be paid out is irrelevant.

Specify amounts in SEK thousands. Example: SEK two million (2 000 000) is expressed as 2 000.

If information on the exact amounts is not available or difficult to access, please make an estimation.

### Extramural R&D expenditure by recipient 2023

	SEK thousands 2023	SEK thousands 2021
<b>Sweden</b>		
Enterprises <sup>[2]</sup>	000 SEK	
Private research institutes <sup>[3]</sup> (e.g. institutes within the RISE-group)	000 SEK	
Defence agencies <sup>[4]</sup>	000 SEK	
Civil government agencies <sup>[5]</sup>	000 SEK	
Municipalities and regions	000 SEK	
Local and regional R&D units <sup>[6]</sup>	000 SEK	
Higher education institutions <sup>[7]</sup>	000 SEK	
Private non-profit organisations (also funding to individual researchers)	000 SEK	
<b>Rest of the world</b>		
Enterprises abroad	000 SEK	
Higher education institutions abroad	000 SEK	
Government entities abroad	000 SEK	
International organisations abroad incl. the EU	000 SEK	
Private non-profit organisations (also funding to individual researchers) abroad	000 SEK	
<b>Total extramural R&amp;D in Sweden and the rest of the world</b>	<b>000 SEK</b>	<b>000 SEK</b>

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[1] **Extramural R&D** is activities that the organisation has commissioned others to carry out as well as support for R&D that the organisations has provided to others, for example grants to universities and colleges.

[2] Include enterprises owned by the state or a municipality if they act under competition on a market.

[3] Exclude funds to research institutes run as government agencies. Report these funds on "Government agencies excl. defence agencies", "Defence agencies" or "Higher education institutions) depending on what type of unit is concerned.

[4] Defence agencies are:

- Swedish Armed Forces
- Swedish Fortification Agency
- Swedish Defence Research Agency (FOI)
- Defence Material Administration (FVM)
- Swedish Defence Conscription and Assessment Agency
- Foreign Intelligence Court
- Swedish Agency for Defence Analysis
- Swedish Foreign Intelligence Inspectorate (SIUN)

[5] Exclude funds to higher education institutions. Report these funds on "Higher education institutions".

[6] A separate organisation which aims to spread scientific knowledge, perform R&D and take initiative for organisational development primarily in municipal and regional organisations.

[7] Include private education providers, i.e. higher education institutions that are not government agencies.

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### A3. Extramural R&D in 2023 by type of funds (optional information)

Allocate the expenditure on extramural R&D <sup>[1]</sup> from question A2 by exchanges and transfers respectively.

**Exchange** R&D funds are funds that your organisation commissions others <sup>[2]</sup> (in Sweden or abroad) to perform R&D for. The funding party, your organisation, retains the right to the results.

**Transfer** R&D funds are funds granted by your organisation to others (in Sweden or abroad) for their R&D activities. The recipient of the funds retains the right to the results.

#### Extramural R&D expenditure by type of funds 2023

Extramural R&D from question A2		000 SEK
Type of funds	Percent	
Exchanges	%	
Transfers	%	
Sum	%	

[1] **Extramural R&D** is activities that the organisation has commissioned others to carry out as well as support for R&D that the organisations has provided to others, for example grants to universities and colleges.

[2] Others refer to organisations with another identity number than the organisation that the answers in this questionnaire refer to.

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#### A4. Extramural R&D in 2023 by socioeconomic objective (optional information)

Allocate the expenditure on extramural R&D <sup>[1]</sup> from question A2 by socioeconomic objective.

If a project has multiple objectives, allocate expenditures proportionately if possible. R&D that cannot be related to a specific socioeconomic objective should be reported as general advancement of knowledge.

Specify amounts in SEK thousands. Example: SEK two million (2 000 000) is expressed as 2 000.

If information on the exact amounts is not available or difficult to access, please make an estimation.

##### Extramural R&D expenditure by socioeconomic objective 2023

Extramural R&D from question A2	000 SEK
	SEK thousands
<b>Improvement of:</b>	
Exploration and exploitation of the Earth <sup>[2]</sup>	000 SEK
Environment <sup>[3]</sup>	000 SEK
Exploration and exploitation of space <sup>[4]</sup>	000 SEK
Transport, telecommunication and other infrastructures <sup>[5]</sup>	000 SEK
Energy <sup>[6]</sup>	000 SEK
Industrial production and technology <sup>[7]</sup>	000 SEK
Health <sup>[8]</sup>	000 SEK
Agriculture <sup>[9]</sup>	000 SEK
Education <sup>[10]</sup>	000 SEK
Culture, recreation, religion and mass media <sup>[11]</sup>	000 SEK
Political and social systems, structures and processes <sup>[12]</sup>	000 SEK
Defence <sup>[13]</sup>	000 SEK
General advancement of knowledge <sup>[14]</sup>	
Of which R&D in natural sciences	000 SEK
Of which R&D in engineering and technology	000 SEK
Of which R&D in medical and health sciences	000 SEK

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Of which R&D in agricultural and veterinary sciences	000 SEK
Of which R&D in social sciences	000 SEK
Of which R&D in humanities and the arts	000 SEK
Sum General advancement of knowledge	000 SEK
Total extramural R&D	000 SEK

[1] **Extramural R&D** is activities that the organisation has commissioned others to carry out as well as support for R&D that the organisations has provided to others, for example grants to universities and colleges.

[2] Refers to R&D related to the exploration of the Earth's crust and mantle, seas, oceans and atmosphere, and their exploitation.

This includes R&D related to:

- Climatic and meteorological research, polar exploration, and hydrology
- Mineral, oil, and natural gas prospecting
- Exploration and exploitation of the seabed

This does **not** include R&D related to:

- Pollution (included in Environment)
- Soil improvement (included in Transport, telecommunication and other infrastructures)
- Land-use and fishing (included in Agriculture)

[3] Refers to R&D related to the control of pollution, aimed at the identification and analysis of the sources of pollution and their causes, and all pollutants, including their dispersal in the environment and effects on man, species (fauna, flora, microorganisms) and biosphere. Furthermore, development of monitoring facilities for the measurement of all kinds of pollution and the elimination and prevention of all forms of pollution in all types of environments is also included.

This includes R&D related to:

- Protection of the atmosphere and climate
- Protection of ambient air
- Solid waste
- Protection of ambient water
- Protection of soil and ground water
- Noise and vibration
- Protection of species and habitats
- Protection against natural hazards
- Radioactive pollution

[4] Refers to R&D related to scientific exploration of space, applied research programmes, launch systems, space laboratories and space travel.

This does **not** include R&D related to:

- Exploration and exploitation of space for military purposes (included in Defence)

[5] Refers to R&D related to infrastructure and land development, including the construction and planning of buildings, general planning of land-use and protection against harmful effects in town and country planning.

This includes R&D related to:

- Transport systems
- Telecommunication systems

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- Water supply

This does **not** include R&D related to:

- Other types of pollution than harmful effects in town and country planning (included in Environment)

[6] Refers to R&D related to the production, storage, distribution, and rational use of all forms of energy. R&D related to processes designed to increase the efficiency of energy production and distribution is also included.

This includes R&D related to:

- Energy efficiency
- CO<sub>2</sub> capture and storage
- Renewable energy sources
- Nuclear fission and fusion
- Hydrogen and fuel cells
- Other power and storage technologies

This does **not** include R&D related to:

- Prospecting (included in Exploration and exploitation of the Earth)
- Vehicle and engine propulsion (included in Industrial production and technologies)

[7] Refers to R&D related to the improvement of industrial production and technology as well as industrial products and their manufacturing processes.

This includes R&D related to:

- Increasing economic efficiency and competitiveness
- Recycling waste

This does not include R&D related to industrial products and their manufacturing processes where they form an integral part of other objectives, e.g. defence, energy or agriculture.

[8] Refers to R&D related to protecting, promoting, and restoring human health, including the health aspects of nutrition and food hygiene. It ranges from preventative medicine, including all aspects of medical and surgical treatment, and the provision of hospital and home care, to social medicine and paediatric and geriatric research.

This includes R&D related to:

- Prevention, surveillance, and control of communicable and non-communicable diseases
- Monitoring the health situation
- Health promotion
- Occupational health
- Public health legislation and regulations
- Public health management
- Specific public health services
- Personal health care for vulnerable and high-risk populations

[9] Refers to R&D related to the promotion of agriculture, forestry, fisheries, and foodstuff production. This includes chemical fertilizers, biocides, biological pest control, and the mechanisation of agriculture. Furthermore, it includes the impact of agricultural forestry on the environment as well as the field of developing food productivity and technology.

This includes R&D relate to:

- Animal and dairy science
- Veterinary science and other agricultural sciences

This does **not** include R&D relate to:

- The reduction of pollution (included in Environment)

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- The development of rural areas, the construction and planning of buildings, the improvement of rural rest and recreation amenities and agricultural water supply (included in Transport, telecommunication, and other infrastructures)
- Energy measures (included in Energy)
- The food industry (included in Industrial production and technology)

[10] Refers to R&D related to general education including training, pedagogy, didactics, and special education (for gifted persons and those learning with disabilities).

This includes R&D related to:

- Pre- and primary school
- Secondary school
- Post secondary non-tertiary education
- Tertiary education
- Subsidiary services to education

[11] Refers to R&D related to the social phenomena of cultural activities, religion, and leisure activities so as to define their impact on life in society. This includes racial and cultural integration, the sociology of science, religion, art, sport, and leisure as well as R&D on the media, the mastery of language and social integration, libraries, archives, and external cultural policy.

This includes R&D related to:

- Recreational and sporting services
- Cultural services
- Broadcasting and publishing services
- Religious and other community services

[12] Refers to R&D related to societies political structure and questions regarding public administration issues and economic policy. This includes regional studies and multi-level governance, social change, social processes and social conflict, the development of social security and social assistance systems and the social aspects of the organisation of work.

This includes R&D related to:

- Gender related social studies including discrimination and familiar problems
- The development of methods of combating poverty at local, national, and international level
- The protection of specific population categories on the social level (immigrants, delinquents, "drop outs" etc.), on the sociological level, i.e. with regard to their way of life (young people, adults, retired people, the handicapped etc.), on the economic level (consumers, farmers, fishermen, miners, the unemployed etc.)
- Methods of providing social assistance when sudden changes (natural, technological, or social) occur in society

This does **not** include R&D related to:

- Industrial health, the health control of communities from the organisational and socio-medical point of view, pollution at the place of work, prevention of industrial accidents and the medical aspects of the causes of industrial accidents (included in Health)

[13] Refers to R&D related to military purposes. This includes basic, nuclear and space R&D financed by the Ministry of Defence or defence agencies.

This does **not** include R&D related to:

- Meteorology (included in Exploration and exploitation of the Earth), telecommunication (included in Transport, telecommunication, and other infrastructures), and health (included in Health) even if it is financed by the Ministry of Defence or defence agencies.

[14] Refers to R&D that aims to advance the level of knowledge in a certain field of science but that is not assignable to a specific socioeconomic objective.

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## B. Expenditure on intramural R&D in 2023

**Intramural R&D** refers to all activities that satisfy the definition of R&D activities <sup>[1]</sup> and are carried out in Sweden by the organisation's own personnel or by consultants in a R&D project led by the organisation. Intramural R&D also includes R&D carried out by commission.

Include all R&D performed in 2023. When expenditures were paid or will be paid is irrelevant.

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### B1. Did the organisation perform intramural R&D in 2023?

- Yes
  - No
- 

*If "No", got to section D.*

[1] **Research and experimental development** (R&D) comprises creative and systematic work undertaken in order to increase the stock of knowledge and to devise new applications of available knowledge in all fields of science. To be defined as R&D, an activity must be:

- **Novel:** An R&D activity undertaken in order to generate new knowledge and to devise new applications of available knowledge.
- **Creative:** R&D activities based on original concepts or hypotheses.
- **Uncertain:** The final outcome of R&D activities is generally uncertain. There is also uncertainty related to the cost or time needed to achieve the expected results.
- **Systematic:** R&D activities are performed systematically and are planned and budgeted.
- **Transferable and/or reproducible:** An R&D activity should lead to results that could possibly be transferable and/or reproducible.

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## B2. Intramural R&D in 2023 by type of cost

### Report expenditure on intramural R&D <sup>[1]</sup> performed in 2023 allocated by type of cost.

Include R&D performed by the organisation on commission from another party.

Report amounts excluding VAT. Also, exclude depreciation costs related to buildings, machinery/equipment, software, or other intellectual property products from operating expenses.

Specify amounts in SEK thousands. Example: SEK two million (2 000 000) is expressed as 2 000.

If information on the exact amounts is not available or difficult to access, please make an estimation. An estimation of the R&D share of a general asset can, for example, be based on the share of R&D personnel using the assets in relation to total personnel.

#### Intramural R&D expenditure by type of cost 2023

Type of cost	SEK thousands 2023	SEK thousands 2021
Operating expenses <sup>[2]</sup>	000 SEK	
Investments <sup>[3]</sup>	000 SEK	
Total intramural R&D	000 SEK	000 SEK

[1] **Intramural R&D** refers to all activities that satisfy the definition of R&D activities and are carried out in Sweden by the organisation's own personnel or by consultants in a R&D project led by the organisation. Intramural R&D also includes R&D carried out by commission.

[2] Operating expenses include:

- Employee remuneration
- Consultant fees
- Other operating expenses (expenditure for materials, equipment, and services for use in R&D)

Exclude depreciation costs relating to buildings, machinery/equipment, software, or other intangible assets.

[3] Refers to the annual gross amount paid for the acquisition of fixed assets. Include investments in assets both used exclusively for R&D and a share of general assets acquired.

An estimation of the R&D share of a general asset can, for example, be based on R&D personnel using the assets as a share of total personnel.

Include investments in:

- Land and buildings
- Machinery and equipment
- Software
- Other intangible fixed assets

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### B3. Intramural R&D in 2023 by source of funds

Allocate the expenditure on intramural R&D <sup>[1]</sup> from question B2 by source of funds.

It is mandatory to report on the main categories, while subcategories are voluntary to report.

Specify amounts in SEK thousands. Example: SEK two million (2 000 000) is expressed as 2 000.

If information on the exact amounts is not available or difficult to access, please make an estimation.

#### Intramural R&D expenditure by source of funds 2023

Intramural R&D from question B2	000 SEK
	<b>SEK thousands</b>
<b>Internal sources of funds</b>	
Self-financing <sup>[2]</sup>	000 SEK
Of which direct government funds (optional)	000 SEK
<b>External sources of funds</b>	
<b>Sweden</b>	
Enterprises <sup>[3]</sup> (incl. private research institutes)	000 SEK
Government units <sup>[4]</sup>	000 SEK
Of which defence agencies <sup>[5]</sup> (optional)	000 SEK
Of which civil government agencies <sup>[6]</sup> (optional)	000 SEK
Of which municipalities and regions <sup>[7]</sup> (optional)	000 SEK
Of which public research foundations <sup>[8]</sup> (optional)	000 SEK
Of which public non-profit organisations <sup>[9]</sup> (optional)	000 SEK
Higher education institutions <sup>[10]</sup>	000 SEK
Private non-profit organisations <sup>[11]</sup>	000 SEK
<b>Abroad</b>	
Enterprises abroad	000 SEK
EU	000 SEK
Of which EU's funding program for R&D <sup>[12]</sup> (optional)	000 SEK

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Of which EU funds excl. the funding program for R&D <sup>[13]</sup> (optional)	000 SEK
International organisations abroad, excl. the EU	000 SEK
Other entities abroad <sup>[14]</sup>	000 SEK
Of which government entities abroad (optional)	000 SEK
Of which private non-profit organisations abroad (optional)	000 SEK
<b>Total intramural R&amp;D</b>	<b>000 SEK</b>

[1] **Intramural R&D** refers to all activities that satisfy the definition of R&D activities and are carried out in Sweden by the organisation's own personnel or by consultants in a R&D project led by the organisation. Intramural R&D also includes R&D carried out by commission.

[2] Funds generated from the organisations activities or return on own capital as well as fees charged by the organisation. Also include credits for R&D provided by banks, funds, institutes, government agencies etc.

Exclude funds from contributions and gifts received especially for R&D. These should be reported under each funder. Report contributions and gifts from private individuals under "Private non-profit organisations".

[3] Include central government and municipal enterprises, government-owned businesses. Also include funds from private research institutes.

[4] This includes:

- Government agencies
- Municipalities and regions
- Municipal and regional associations as well as local and regional R&D units
- Public research foundations and other public non-profit organisations

Exclude:

- Public higher education institutions (report under "Higher education institutions")

[5] Defence agencies are:

- Swedish Armed Forces
- Swedish Fortification Agency
- Swedish Defence Research Agency (FOI)
- Defence Material Administration (FVM)
- Swedish Defence Conscription and Assessment Agency
- Foreign Intelligence Court
- Swedish Agency for Defence Analysis
- Swedish Foreign Intelligence Inspectorate (SIUN)

[6] Exclude funds to higher education institutions. Report these funds on "Higher education institutions".

[7] Include municipal and regional associations.

[8] The public research foundations are:

- Swedish Foundation for Strategic Research (SSF)
- The Knowledge Foundation (KK-stiftelsen)
- The Swedish Foundation for Strategic Environmental Research (MISTRA)
- The International Institute for Industrial Environmental Economics (IIIEE)
- The Foundation for Baltic and East European Studies (Östersjöstiftelsen)

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- The Swedish Foundation for International Cooperation in Research and Higher Education (STINT).

[9] Examples of public non-profit organisations:

- Stiftelsen Sipri
- Utrikespolitiska institutet (UI)
- Nordregio
- Nordiskt genresurscenter
- Riksbankens jubileumsfond
- Sveriges kommuner och regioner (SKR)
- Kommunförbundet Västernorrland,
- Norrbottens kommun
- Skånes kommuner
- Stiftelsen Skaraborgsinstitutet
- Stiftelsen Stockholms läns äldrecentrum

[10] Include private education providers, i.e. higher education institutions that are not government agencies.

[11] This refers to all organisations that have not been reported as Enterprises, Government units or Higher education institutions, such as private foundations and non-profit associations or individuals.

[12] For example, projects organised and partly financed by the EU.

[13] For example, European structural and investment funds.

[14] This includes:

- Government entities abroad
- Private non-profit organisations abroad

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## B4. Intramural R&D in 2023 by type of R&D

Allocate the expenditure on intramural R&D <sup>[1]</sup> from question B2 by type of R&D.

**Basic research** is systematic work undertaken in order to increase the stock of knowledge without a particular application or use in view.

**Applied research** is systematic work undertaken in order to increase the stock of knowledge with a particular application or use in view.

**Experimental development** is systematic work, drawing on knowledge gained from research and practical experience and producing additional knowledge, which is directed to producing new materials, goods, services, processes, systems, methods, or significant improvements of such that already exist.

### Intramural R&D expenditure by type of R&D 2023

Intramural R&D from question B2		000 SEK
Type of R&D	Percent	
Basic research	%	
Applied research	%	
Experimental development	%	
Sum	%	

[1] **Intramural R&D** refers to all activities that satisfy the definition of R&D activities and are carried out in Sweden by the organisation's own personnel or by consultants in a R&D project led by the organisation. Intramural R&D also includes R&D carried out by commission.

## B5. Intramural R&D in 2023 by fields of research and development

Allocate the expenditure on intramural R&D <sup>[1]</sup> from question B2 by fields of research and development.

If a R&D project answers to multiple fields of research and development, please allocate expenditures accordingly if possible.

Specify amounts in SEK thousands. Example: SEK two million (2 000 000) is expressed as 2 000.

If information on the exact amounts is not available or difficult to access, please make an estimation.

### Intramural R&D expenditure by fields of research and development 2023

Intramural R&D from question B2	000 SEK
<b>Fields of research and development</b>	<b>SEK thousands</b>
Natural sciences	000 SEK
Engineering and technology	000 SEK
Medical and health sciences	000 SEK
Agricultural and veterinary sciences	000 SEK
Social sciences	000 SEK
Humanities and the arts	000 SEK
<b>Total intramural R&amp;D</b>	<b>000 SEK</b>

[1] **Intramural R&D** refers to all activities that satisfy the definition of R&D activities and are carried out in Sweden by the organisation's own personnel or by consultants in a R&D project led by the organisation. Intramural R&D also includes R&D carried out by commission.

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## C. Personnel in intramural R&D 2023

**R&D personnel** refers to personnel that are directly involved in R&D activities, regardless of whether they are employed by your organisation or external personnel that is fully integrated in your R&D activities. Include personnel providing direct support to R&D (such as R&D managers, administrators, technicians, and other office personnel).

Exclude personnel that only provides indirect support to R&D such as canteen, maintenance, or security personnel.

Report on all personnel that is directly involved in and/or provides direct support to your intramural R&D. Report personnel in headcounts and full-time equivalents respectively.

### C1. Number of persons in intramural R&D on 31 December 2023

**Report number of employees, consultants and other external personnel, and volunteers <sup>[1]</sup> in your intramural R&D on 31 December 2023**

It is mandatory to report on the main categories, while subcategories are voluntary to report.

Include personnel that contributes to your intramural R&D activities, regardless of whether they work full-time or part-time. Only include persons performing R&D corresponding to at least 10 percent of a full-time.

If function or sex is unknown, please make an estimation.

#### Number of persons in R&D as of 31/12 2023

	Women	Men	Total number of persons
Researchers, product developers or equivalent <sup>[2]</sup>			
Of which employees (optional)			
Supporting R&D staff <sup>[3]</sup>			
Of which employees (optional)			
Total number of persons in R&D			
Of which employees			

[1] Volunteers are only to be included in R&D personnel if they fulfil the following criteria:

- They contribute to the intramural R&D activities of your organisation.
- Their research skills are comparable to those of employees.
- Their R&D activities are systematically planned according to both the needs of the volunteers and to those of your organisation.
- Their contribution should be appreciable and an essential condition for enabling your organisation to undertake an intramural R&D activity or project.

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[2] Refers to persons engaged in the conception or creation of new knowledge and the application of products, processes, methods, and systems. Persons involved in managing R&D projects are also included in this group.

[3] Refers to:

**Technical staff.** Persons with specialised knowledge, performing scientific and technical tasks that include applying concepts and operational methods, such as:

- preparing and performing experiments, tests, and analyses,
- conducting statistical studies and interviews, and
- conducting literature reviews, choosing relevant material from archives and libraries.

These tasks are normally performed under the supervision of researchers.

**Administrative staff and other staff.** Supporting R&D staff also includes persons whose work tasks can be regarded as direct supporting activities for R&D, such as:

- accounting and human resources, and
- operational management.

Example questionnaire

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## C2. Number of full-time equivalents in intramural R&D 2023

Report the number of full-time equivalents (FTE) by employees, consultants and other external personnel, and volunteers <sup>[1]</sup> in your internal R&D in 2023.

It is mandatory to report on the main categories, while subcategories are voluntary to report.

Only include persons performing R&D corresponding to at least 10 percent of a full-time.

Include all personnel that is directly involved in and/or provides direct support to your intramural R&D.

Exclude personnel that only provides indirect support to R&D such as canteen, maintenance, or security personnel.

One full-time equivalent <sup>[2]</sup> is defined as the number of hours conventionally worked by a full-time employee over one year. Thus, a full-time spending 50% of their working hours on R&D spends 0.5 FTEs on R&D. One person can never perform more than one FTE, even if the person works overtime.

If function is unknown, please make an estimation.

Number of FTE in intramural R&D in 2023	
	Total number of FTE
Researchers, product developers or equivalent <sup>[3]</sup>	
Of which employees (optional)	
Supporting R&D staff <sup>[4]</sup>	
Of which employees (optional)	
Total number of FTE in R&D	
Of which employees	

[1] Volunteers are only to be included in R&D personnel if they fulfil the following criteria:

- They contribute to the intramural R&D activities of your organisation.
- Their research skills are comparable to those of employees.
- Their R&D activities are systematically planned according to both the needs of the volunteers and to those of your organisation.
- Their contribution should be appreciable and an essential condition for enabling your organisation to undertake an intramural R&D activity or project.

[2] Examples of R&D FTE calculations:

- a full-time employee spending 30% of their time on R&D over one year:  $(1 \times 1 \times 0.3) = 0.3$  FTE.
- a full-time employee spending 100% of their time on R&D over half of the year (the person is only active for 6 months per year):  $(1 \times 0.5 \times 1) = 0.5$  FTE.
- a full-time employee spending 40% of their time on R&D over half of the year (the person is only active for 6 months per year):  $(1 \times 0.4 \times 0.5) = 0.2$  FTE.
- a part-time employee working 40% of a full-time year spending 60% of their time on R&D over half of the year (the person is only active for 6 months per year):  $(0.4 \times 0.5 \times 0.6) = 0.12$  FTE.

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[3] Refers to persons engaged in the conception or creation of new knowledge and the application of products, processes, methods, and systems. Persons involved in managing R&D projects are also included in this group.

[4] Refers to:

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- conducting statistical studies and interviews, and
- conducting literature reviews, choosing relevant material from archives and libraries.

These tasks are normally performed under the supervision of researchers.

**Administrative staff and other staff.** Supporting R&D staff also includes persons whose work tasks can be regarded as direct supporting activities for R&D, such as:

- accounting and human resources, and
- operational management.

Example questionnaire

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**D. R&D activities forecast for 2024**

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**D1. Does the organisation perform, or plan to perform, intramural R&D activities in 2024?**

- Yes
  - No
- 

*If "No", go to section E.*

Example questionnaire

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## D2. R&D expenditures for intramural R&D forecast for 2024

Report an approximation of the organisation's expenditure on intramural R&D <sup>[1]</sup> during 2024.

Specify the **total amount** for the following items:

### Operating expenses <sup>[1]</sup>

- Employee remuneration
- Consulting fees
- Other operating expenses

### Investments <sup>[2]</sup>

- Land and buildings
- Machinery and equipment
- Software
- Other intangible fixed assets

Specify amounts in SEK thousands. Example: SEK two million (2 000 000) is expressed as 2 000.

If information on the exact amounts is not available or difficult to access, please make an estimation.

### Total expenditure on intramural R&D in 2024

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SEK thousands

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000 SEK

---

[1] **Intramural R&D** refers to all activities that satisfy the definition of R&D activities and are carried out in Sweden by the organisation's own personnel or by consultants in a R&D project led by the organisation. Intramural R&D also includes R&D carried out by commission.

[2] Exclude depreciation costs relating to buildings, machinery/equipment, software, or other intellectual property products from operating expenses.

[3] Refers to the annual gross amount paid for the acquisition of fixed assets. Include investments in assets both used exclusively for R&D and a share of general assets acquired.

An estimation of the R&D share of a general asset can, for example, be based on R&D personnel using the assets as a share of total personnel.

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### D3. R&D personnel in intramural R&D forecast for 2024

Report the number of full-time equivalents (FTE) that will be performed by employees, consultants and other external personnel, and volunteers <sup>[1]</sup> in your internal R&D in 2024.

It is mandatory to report on the main categories, while subcategories are voluntary to report.

Only include persons performing R&D corresponding to at least 10 percent of a full-time.

Include all personnel that is directly involved in and/or provides direct support to your intramural R&D.

Exclude personnel that only provides indirect support to R&D such as canteen, maintenance, or security personnel.

One full-time equivalent <sup>[2]</sup> is defined as the number of hours conventionally worked by a full-time employee over one year. Thus, a full-time spending 50% of their working hours on R&D spends 0.5 FTEs on R&D. One person can never perform more than one FTE, even if the person works overtime.

If function is unknown, please make an estimation.

Number of FTE in intramural R&D forecast for 2024	
	Total number
Researchers, product developers or equivalent <sup>[3]</sup>	
Of which employees (optional)	
Supporting R&D staff <sup>[4]</sup>	
Of which employees (optional)	
Total number of persons in R&D	
Of which employees	

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- Their contribution should be appreciable and an essential condition for enabling your organisation to undertake an intramural R&D activity or project.

[2] Examples of R&D FTE calculations:

- a full-time employee spending 30% of their time on R&D over one year:  $(1 \times 1 \times 0.3) = 0.3$  FTE.
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- a full-time employee spending 40% of their time on R&D over half of the year (the person is only active for 6 months per year):  $(1 \times 0.4 \times 0.5) = 0.2$  FTE.
- a part-time employee working 40% of a full-time year spending 60% of their time on R&D over half of the year (the person is only active for 6 months per year):  $(0.4 \times 0.5 \times 0.6) = 0.12$  FTE.

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**E. Other information**

**Comment:** (optional information)

**How long did it take to produce and submit the requested information?** (optional information)

Statistics Sweden is working actively to reduce the amount of time that enterprises and organisations need to spend on submitting their responses. For this reason, we would be very grateful if you could answer this voluntary question.

**Hours**

**Minutes**

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