



# Research and Development

## Survey on R&D spending and staffing in private companies

# R&D 2000

### Date protection

The information you provide will be treated in strict confidence. The survey findings will be published in such a way that it is impossible to draw any conclusions about your company.

**Aids and Information :** Please note the guidelines (enclosure I) as well as the other aids. Should you have any further questions, please do not hesitate to contact Mr. Marti and his colleagues on 032 / 713 68 16 (German and French).

**Period surveyed :** The data refer to the period from 1.1. – 31.12.2000

**Deadline for replies :** Please complete and return the questionnaire to us by **24 March 2001**

**Contact for queries :**

**Name** \_\_\_\_\_ **Section** \_\_\_\_\_ **Telephone** \_\_\_\_\_

### Definition of Research and Development

Research and experimental development (R&D) covers systematic, creative work designed to expand on existing knowledge, including findings about man, culture and society as well as their use with a view to discovering new potential applications. (see enclosure I for further explanations)

### R&D in the year 2000

Did you carry out R&D – for your own use or commissioned by others – in your company in 2000 ? (in-house R&D)  Yes  No

Did you outsource R&D work in 2000? (external R&D)  Yes  No

If you answered all these questions in the negative, your work is almost over. Please complete the comments under section L and return your questionnaire to us without delay, using the enclosed envelope. Thank you very much for cooperating on this survey.

### Ownership situation and branches or subsidiaries

**Company Headquarters :**

**Country** \_\_\_\_\_ **Name of company** \_\_\_\_\_

We would appreciate your completing the questionnaire for the company as a whole (for the definition, see enclosure I, page ...). If these data refer to other work sites or branches (regardless of whether or not they are active in R&D ), please list their names below:

Name of all branches or work sites	Address	Place

If there are more than 4 names, please enclose a separate list.

**A General questions about the company**

Turnover made in Switzerland in financial year 2000

 120  (in 1'000 CHF)

Total of persons employed in Switzerland at 31.12.2000, by training

Training		a Total employees	b of whom women	c of whom foreigners
University graduates (incl. FIT)	101			
Technical universities (incl. former technical universities such as HWV or HTL)	102			
Commercial or technical vocational training	104			
Other post-compulsory education qualification	106			
Compulsory education	108			
Non-specified training	109			
<b>Total staff in Switzerland</b>	<b>110</b>			

**B Company expenditure on in-house R&D in Switzerland in 2000**

1. How high was total expenditure on in-house R&amp;D in your company in the year 2000?

 240  (in 1000 CHF)

of which

**R&D staff expenditure**

 210  (in 1000 CHF)

**R&D overheads**

covering materials, rental, leasing, etc. without depreciation

 220  (in 1000 CHF)

**Depreciation** on premises, plant and equipment for R&D

 230  (in 1000 CHF)

2. How high was gross investment in R&amp;D in the calendar year under review?

 244  (in 1000 CHF)

**C Locations with in-house R&D in Switzerland in 2000**

Only branches or work sites that conduct R&amp;D should be listed.

Name of branch or work site	Adresse	Place	R&D Share	R&D staff
<b>Company featured on the address label</b>				
<b>Total R&amp;D expenditure as well as total R&amp;D staff numbers</b>			<b>= 100 %</b>	<b>= Total R&amp;D staff</b>

**D Type of in-house R&D company expenditure in Switzerland in 2000**

Breakdown of in-house R + D-expenditure by type of research		in %
In-house expenditure on basic research	331	
In-house expenditure on applied research	335	
In-house expenditure on experimental development	340	
<b>Total in-house R&amp;D expenditure in Switzerland (100% = Position 240, Section B)</b>		<b>= 100 %</b>

## E Breakdown of in-house expenditure by R&D objectives in Switzerland in 2000

R&D objectives	Estimation in %	of which Biotechnology	R&D objectives	Estimation in %
Environmental protection and damage prevention	364		Research and use of the Earth's environment	361
Protection and promotion of human health	365		Infrastructure measures and town and country planning	362
Agricultural production and technology	367		Telecommunication systems	363
Industrial production and technology	368		Energy (production, distribution, rational use)	366
Electronics and related industries	369		Vehicle construction	371
Chemical industry products	370		Social structures and relationships	372
Non-targetted research	374		Space research and use	373
Non-assignable research	376		National defence, arms	375
			<b>Total (100% = Position 240, Section B)</b>	

See enclosure II for detailed information about R&D objectives.

## F Company's expenditure on external R&D in Switzerland in 2000

### Commissions and contributions for Research and Development (R&D) in Switzerland given to

other private companies in Switzerland (excl. subsidiaries)	250	<input type="text"/>	(in 1000 CHF)
Swiss universities (including FIT and HTL)	260	<input type="text"/>	(in 1000 CHF)
other recipients in Switzerland (joint research, private non-profit-making organizations, etc.)	270	<input type="text"/>	(in 1000 CHF)
Company's total expenditure on external R&D in Switzerland	291	<input type="text"/>	(in 1000 CHF)
R&D commissions and contributions to foreign research units (excl. subsidiaries)	276	<input type="text"/>	(in 1000 CHF)
Acquisition of "know how" for patents and licences	280	<input type="text"/>	(in 1000 CHF)

## G R&D plans in Switzerland in 2001 and 2002

Estimated R&D expenditure for the following two years (2001 and 2002)	in %
Total R&D expenditure in 2001 (2000 = 100%)	315
Total R&D expenditure in 2002 (2000 = 100%)	325

## H Financing of the R&D conducted in the company (=in-house) in Switzerland in 2000

### How were the resources for financing R&D activities in your company in 2000 mustered?

By your company			
Including resources raised on the market	415	<input type="text"/>	(in 1000 CHF)
Commissions and contributions from			
other private companies in Switzerland with no financial links to yours	425	<input type="text"/>	(in 1000 CHF)
the public sector (commission for technology and innovation, etc.)	435	<input type="text"/>	(in 1000 CHF)
other sources in Switzerland (universities, private non-profit-making organizations, etc.)	445	<input type="text"/>	(in 1000 CHF)
abroad (private companies, international organizations, etc.)		<input type="text"/>	455(in 1000 CHF)
= Total expenditure on in-house R&D (corresponds to Section B, Position 240)	405	<input type="text"/>	(in 1000 CHF)

**I Persons employed in R&D in Switzerland in 2000, by training**

Training	a Total employees	b of whom women	c of whom foreigners	d R&D man/years
University graduates (incl. FIT)	640			
Technical universities (incl. former technical universities such as HWV or HTL)	665			
Commercial or technical vocational training	674			
Other post-compulsory education qualification	675			
Compulsory education	697			
Non-specified training	698			
<b>Total R&amp;D staff in Switzerland</b>	<b>600</b>			

**J Staff employed in R&D in Switzerland in 2000, by type of activity**

Type of activity	a Total employees	b of whom women	c of whom foreigners	d R&D man/years
Research Staff	715			
Technical R&D Staff	725			
Other R&D Staff	735			
<b>Total R&amp;D staff in Switzerland</b> (corresponds to Section I, Position 600)	<b>705</b>			

**K Research and Development (R&D) of foreign branches and subsidiaries**

**Does your company have branches or subsidiaries abroad which conduct R&D?**

Yes  Please answer the other questions under this heading

No  Your work is almost over. Please complete the comments under section L and return the questionnaire to us without delay, using the enclosed envelope. Thank you very much participating in this survey.

1. General questions about foreign branches

Total number of employees at 31.12.2000 115

Turnover made abroad in 2000 125

2. R&D expenditure of your foreign branches in 2000

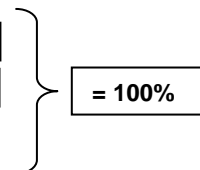
Total R&D expenditure of branches abroad 205

Distribution of R&D expenditure by groups of countries

European Union (EU) member countries 2070

Other OECD member countries (USA, Japan, Canada, etc.) 2080

Other countries 2090



**L Comments and remarks**

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**Thank you very much for taking the time to participate in this survey!**