### Data protection
The information you provide will be kept strictly confidential. The survey findings will be published in such a way as to make it impossible for any conclusions to be drawn about your company.

### General instructions and contact info
The appendices provide detailed information and instructions to help you fill out the questionnaire. For questions, contact the SFSO: 032 / 713 63 48 (German) or 032 / 713 62 99 (French)

### Period surveyed
The data refer to the period from 1 January 2004 to 31 December 2004.

### Specific instructions
When filling out the questionnaire, please make sure that fields are left blank only when you are unable to answer them. Write "0" (zero) when the reply is "0". Leave estimated figures in parenthesis (...).

### Deadline
Please fill out and return the questionnaire by: 30 March 2005

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### Definition of Research and Development
Research and experimental development (R&D) comprise creative work undertaken on a systematic basis in order to increase the stock of knowledge, including knowledge of man, culture and society and the use of this stock of knowledge to devise new applications (see Appendix I for further explanations).

### 6 Questions about your company in Switzerland

#### Contact person
Name of person in your company to contact for questions regarding this questionnaire:
- Name
- Dept.
- E-mail
- Tel.

#### R&D in 2004

- Did your company carry out R&D activities on its own behalf or on behalf of third parties (intramural R&D) in 2004?
- Yes
- No

- Did your company outsource R&D activities to third parties in Switzerland or abroad in 2004 (extramural R&D)?
- Yes
- No

- Did your company, its workplaces and/or subsidiaries abroad conduct R&D activities on their own behalf or on behalf of third parties in 2004?
- Yes
- No

If you answered "no" to all three questions, your work is almost over. Please write any comments you would like to make in Section K and use the enclosed envelope to return the questionnaire to us. We appreciate your having taken part in this survey.

### Company headquarters, workplaces and subsidiaries

#### Company headquarters:
- Country
- Name of company

The information that you provide in this questionnaire should apply to your company as a whole (definition: see page 1 of Appendix I). If data refer to other domestic workplaces or subsidiaries involved in R&D, please indicate their names below:

<table>
<thead>
<tr>
<th>Name of workplace or subsidiary</th>
<th>Address</th>
<th>Postcode</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
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<tr>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

If there are more than 6 names, please enclose a separate list.
### A. General questions about your company in Switzerland, 2004

<table>
<thead>
<tr>
<th>Question</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turnover in Switzerland in 2004</td>
<td>120 (in CHF '000)</td>
</tr>
<tr>
<td>Total number of persons employed in Switzerland on 31 December 2004</td>
<td>109 (number)</td>
</tr>
</tbody>
</table>

### B. Company intramural R&D expenditure in Switzerland, 2004

- **a. Labour costs of R&D personnel**
  - Wages, salaries, related costs and services for R&D personnel
  - Value: 210 (in CHF '000)

- **b. Other current R&D costs**
  - Covering materials, rental, leasing etc., without depreciation
  - Value: 220 (in CHF '000)

- **c. Capital expenditures for R&D**
  - Property and buildings, devices and equipment, software, etc., without depreciation
  - Value: 244 (in CHF '000)

**Total Company intramural R&D expenditure in Switzerland, 2004**

- Value: 245 (in CHF '000)

**R&D depreciation**

- Please indicate only depreciation of R&D-related assets (property, buildings, devices and equipment)
  - Value: 230 (in CHF '000)

### C. Breakdown of intramural R&D expenditure in Switzerland by field of research, 2004

**Intramural R&D expenditure in Switzerland for biotechnology and nanotechnology, 2004**

- Proportion of intramural R&D expenditure in Switzerland for biotechnology, 2004 (% of the total indicated in position 245, Section B)
  - Value: 500

- Proportion of intramural R&D expenditure in Switzerland for nanotechnology, 2004 (% of the total indicated in position 245, Section B)
  - Value: 510

See Appendix III for detailed information about biotechnology and nanotechnology.

### D. Breakdown of intramural R&D expenditure in Switzerland by type of research, 2004

**Breakdown of intramural R&D expenditure in Switzerland by type of research, 2004**

- Intramural expenditure on basic research
  - Value: 331

- Intramural expenditure on applied research
  - Value: 335

- Intramural expenditure on experimental development
  - Value: 340

**Total company intramural R&D expenditure in Switzerland, 2004 (100% = position 245, Section B)**

- Value: 245
  - Total = 100%

Your replies should be based on the definitions and examples provided on pages 2 and 3 of Appendix I.

### E. Breakdown of intramural R&D expenditure in Switzerland by R&D objectives, 2004

<table>
<thead>
<tr>
<th>R&amp;D objectives</th>
<th>% estimate</th>
<th>R&amp;D objectives</th>
<th>% estimate</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Exploration and exploitation of the Earth</td>
<td>361</td>
<td>9. Electronics and related industries</td>
<td>369</td>
</tr>
<tr>
<td>2. Infrastructure and general planning of land-use</td>
<td>362</td>
<td>10. Chemical industry products</td>
<td>370</td>
</tr>
<tr>
<td>4. Control of environmental pollution</td>
<td>364</td>
<td>12. Social structures and relationships</td>
<td>372</td>
</tr>
<tr>
<td>5. Protection and improvement of human health</td>
<td>365</td>
<td>13. Exploration and exploitation of space</td>
<td>373</td>
</tr>
<tr>
<td>7. Agricultural production and technology</td>
<td>367</td>
<td>15. Defence</td>
<td>375</td>
</tr>
<tr>
<td>8. Industrial production and technology</td>
<td>368</td>
<td>16. Other civil research</td>
<td>376</td>
</tr>
</tbody>
</table>

**Total (100% = position 245, Section B)**

- Value: 245
  - Total = 100%

See Appendix II for detailed information about R&D objectives.
F Company expenditure for extramural R&D, 2004

R&D contracts and research grants given to research units in Switzerland:
- other private companies in Switzerland (excl. your company's own domestic workplaces and subsidiaries) 250
- higher education (univ., univ. of applied sciences, federal institutes of tech. and related research facilities) 260
- government sector facilities (e.g. agricultural research centers) 265
- other recipients in Switzerland (e.g. joint research, private non-profit organisations) 275

a. Total R&D contracts and research grants given to research units in Switzerland 291

R&D contracts and research grants given to research units abroad:
- other private companies (excl. your company's own foreign workplaces and subsidiaries) 277
- other recipients abroad (e.g. joint research, private non-profit organisations) 278

b. Total R&D contracts and research grants given to research units abroad: 276

c. Acquisition of R&D expertise (patents and licences) 280

c. Total company expenditure for extramural R&D, 2004 (Total = a+b+c) 290

G Funding of company intramural R&D activities in Switzerland, 2004

R&D contracts and research grants from:
- other private companies in Switzerland with no financial ties to your company 425
- government agencies (e.g. technology and innovation projects) 435
- higher education in Switzerland (univ., univ. of applied sciences, fed. inst. of tech. & fed. research facilities) 440
- other sources in Switzerland (e.g. non-profit organisations) 450
- funding from foreign sources (e.g. private companies, international organisations) 455

Total funding of company intramural R&D activities in Switzerland, 2004 (Total = position 245, Section B) 405

H Breakdown of R&D personnel in Switzerland according to educational background

<table>
<thead>
<tr>
<th>Education (highest level reached)</th>
<th>a) Number of R&amp;D employees</th>
<th>b) Number of female R&amp;D employees</th>
<th>c) Number of foreign R&amp;D employees</th>
<th>d) Total R&amp;D personnel in full-time equivalence (FTE)</th>
</tr>
</thead>
<tbody>
<tr>
<td>University-level education (exact sciences, natural sciences, engineering, medicine)</td>
<td>627</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>University-level education: humanities, social sciences, law, economics)</td>
<td>628</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total number of university-level graduates</td>
<td>640</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vocational college (technical or business)</td>
<td>665</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper secondary (general education or basic vocational)</td>
<td>685</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other, non-specified education or training</td>
<td>698</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total R&amp;D personnel in Switzerland</td>
<td>600</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

See pages 3 and 4 of Appendix I for detailed information about R&D personnel.

I Breakdown of R&D personnel in Switzerland according to type of activity, 2004

<table>
<thead>
<tr>
<th>Type of activity</th>
<th>a) Number of R&amp;D employees</th>
<th>b) Number of female R&amp;D employees</th>
<th>c) Number of foreign R&amp;D employees</th>
<th>d) Total R&amp;D personnel in full-time equivalence (FTE)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Researchers</td>
<td>715</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Technicians and equivalent staff</td>
<td>725</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other support staff</td>
<td>735</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total R&amp;D personnel in Switzerland (Total = position 600, Section H)</td>
<td>705</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
J. Your company’s foreign workplaces and subsidiaries

Does your company have foreign workplaces and/or subsidiaries?

Yes ☐  Reply to the other questions in this Section
No ☐  your work is almost over. Please write any comments you would like to make in Section K and use the enclosed envelope to return the questionnaire to us. We appreciate your having taken part in this survey.

General information about your company’s foreign workplaces and subsidiaries, 2004

Total number of employees abroad on 31 December 2004 (Number) 115
Turnover generated abroad in 2004 (in CHF ‘000) 125

R&D expenditure made by your company’s foreign workplaces and subsidiaries, 2004

Total R&D personnel abroad in 2004 (Number) 204
Total R&D expenditure made by your company’s foreign workplaces and subsidiaries (in CHF ‘000) 205

Distribution of total R&D expenditure abroad by (groups of) countries, 2004

% estimate

EU member states (EU-15): Austria, Belgium, Denmark, Finland, France, Germany, Greece, Ireland, Italy, Luxemburg, Netherlands, Portugal, Spain, Sweden and UK.

New EU member states: Cyprus, Czech Republic, Estonia, Hungary, Latvia, Lithuania, Malta, Poland, Slovakia and Slovenia.

USA
Canada
Japan
Other countries 2095

= 100%

K. Comments

Thank you for having taken part in this survey!