

R&D, Innovation and Education

- 4.1 Innovation performances
- 4.2 Scientific research
- 4.3 Intellectual property
- 4.4 Education

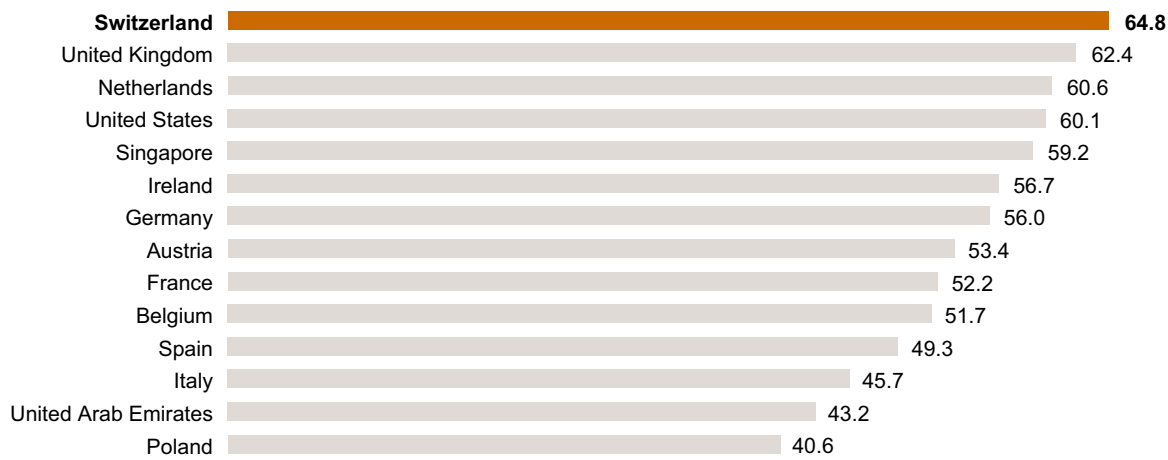


Hub of innovation and technology

- The world's best country for innovation
- A global hub for scientific research
- Intellectual property rights guaranteed
- World class education

4.1.1 Global innovation index

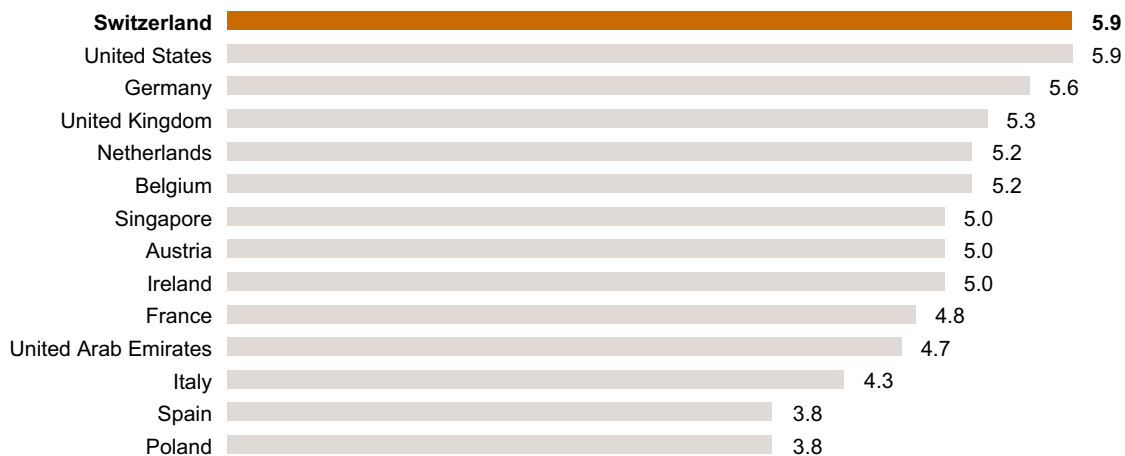
The index gauges elements of the national economy that enable innovative activities: institutions, human capital, research, infrastructure, market sophistication, business sophistication, scientific outputs and creative outputs. (on a scale from 0 to 100, the higher the better)



Source: Cornell University, INSEAD, WIPO • The Global Innovation Index • 2014

4.1.2 Capacity for innovation

Capacity of companies to innovate in the given country (on a scale from 1 to 7, the higher the better)



Source: World Economic Forum • The Global Competitiveness Report • 2014-2015

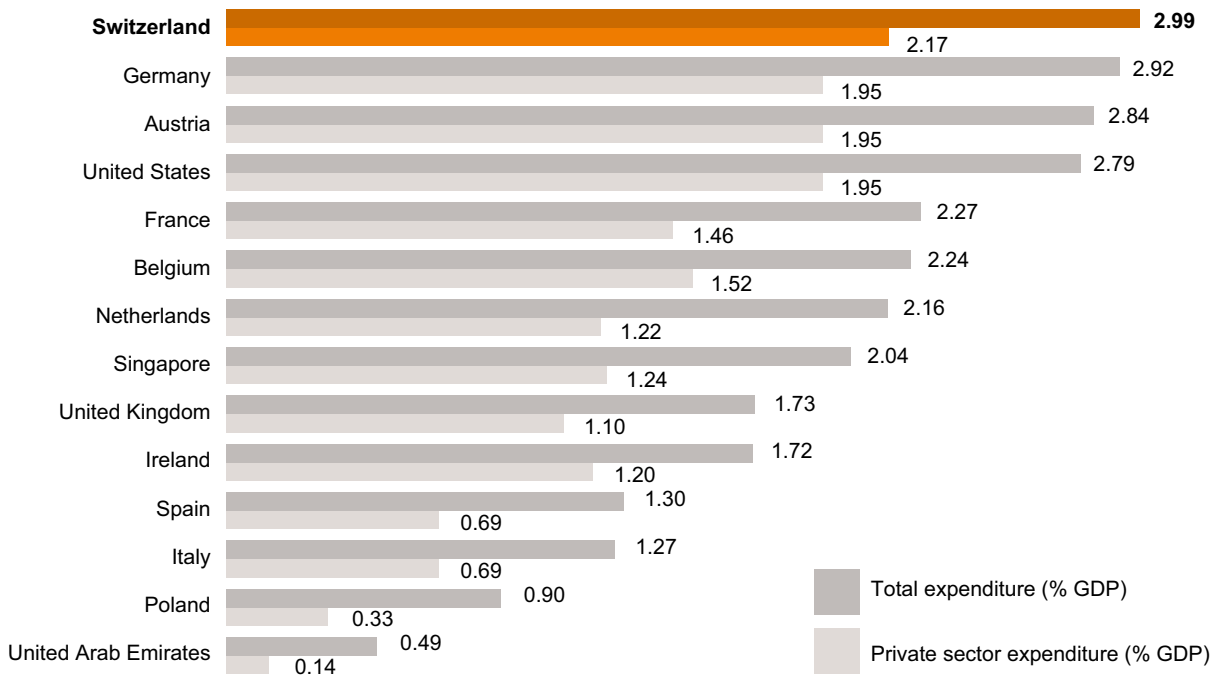
The world's best country for innovation

For the fourth consecutive year, Switzerland has been ranked as the best country for innovation in the world.

Switzerland and Geneva are indeed at the cutting edge of innovation, technical excellence and higher education. And thanks to the strong ties linking universities and research centers to the industry, the potential for knowledge and technology transfer is excellent.

4.1.3 R&D expenditures (in % of the GDP)

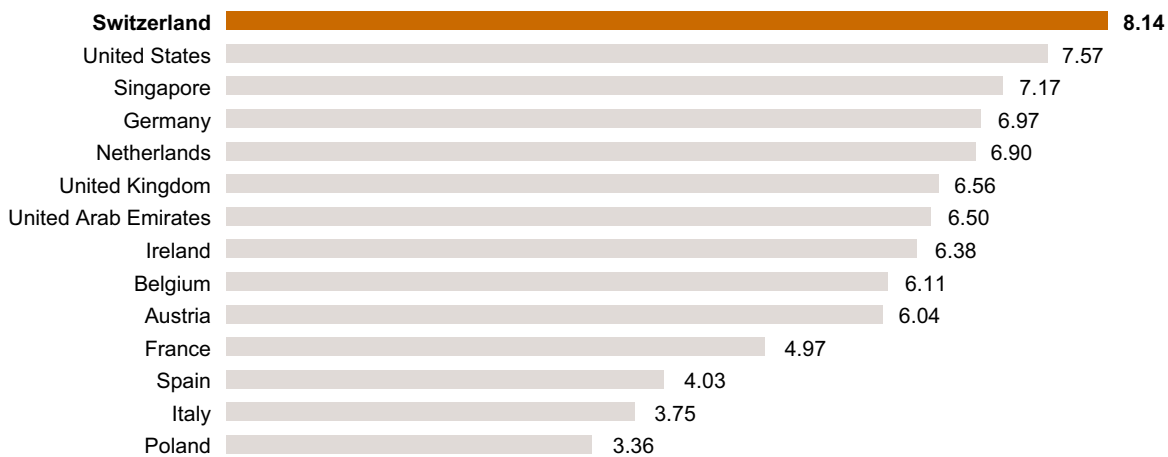
Total and private sector expenditures for research and development to increase knowledge



Source: IMD • World Competitiveness Yearbook Online • 2014

4.1.4 Development of knowledge transfer

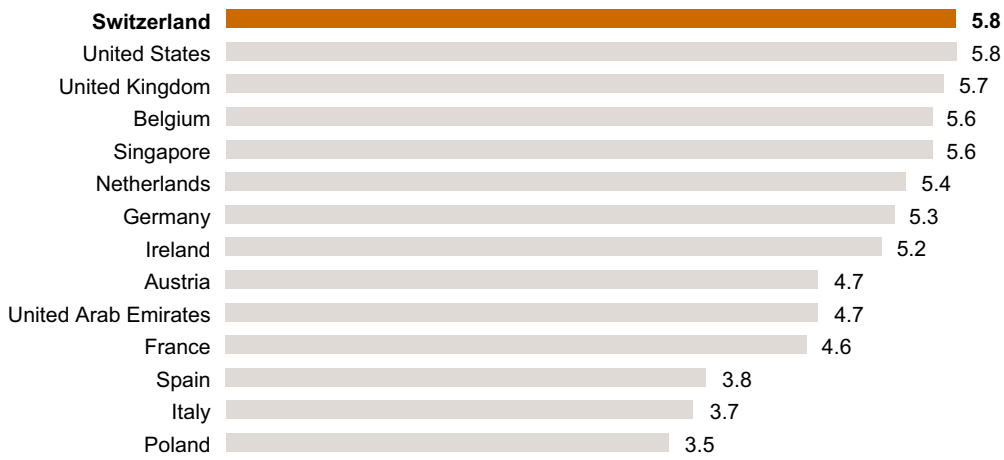
Knowledge transfer is highly developed between companies and universities
(on a scale from 0 to 10, the higher the better)



Source: IMD • World Competitiveness Yearbook Online • 2014

4.1.5 Collaboration between universities and industry in R&D

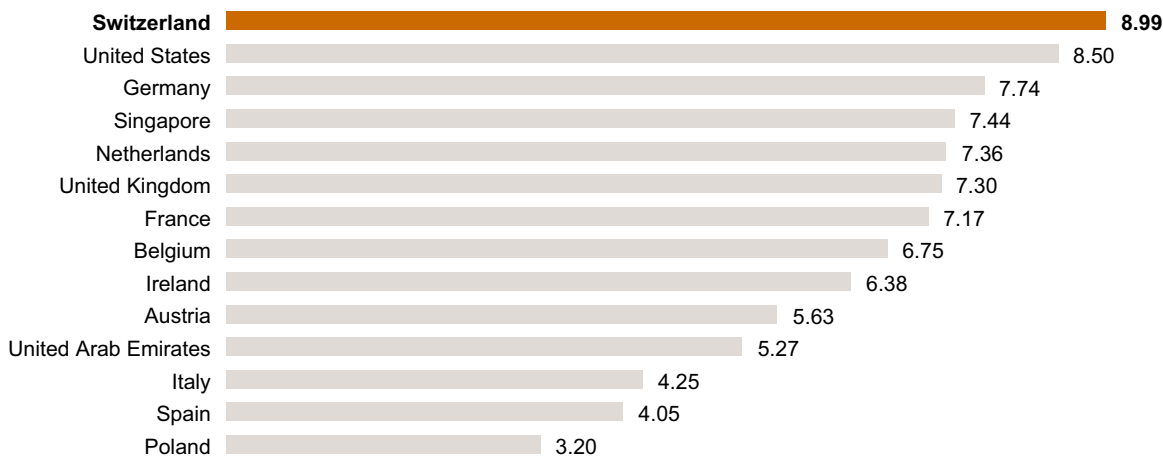
Level of collaboration existing between universities and industry in research and development
(on a scale from 1 to 7, the higher the better)



Source: World Economic Forum • The Global Competitiveness Report • 2014-2015

4.2.1 Quality of scientific research

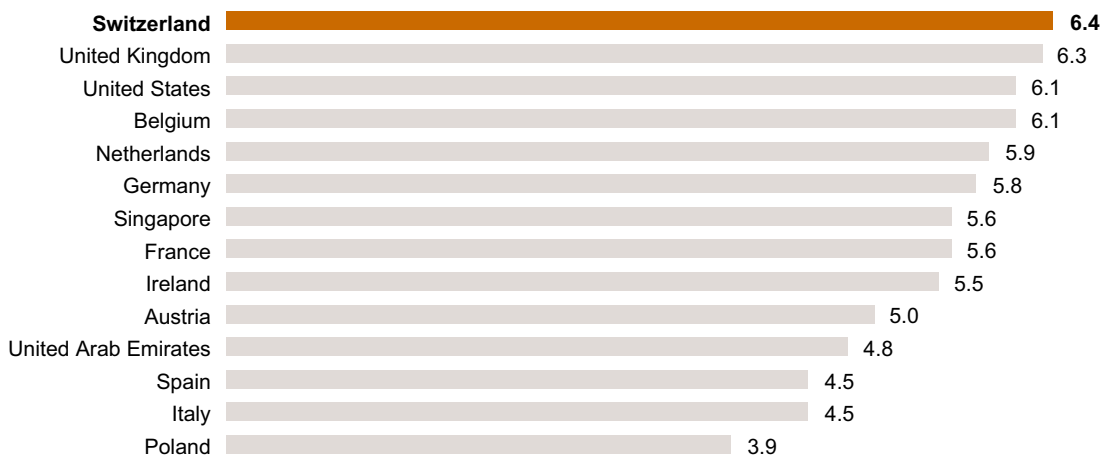
Quality of scientific research (public and private) in relation to international standards
(on a scale from 0 to 10, the higher the better)



Source: IMD • World Competitiveness Yearbook Online • 2014

4.2.2 Quality of scientific research institutions

Quality of scientific research institutions by country
(on a scale from 1 to 7, the higher the better)



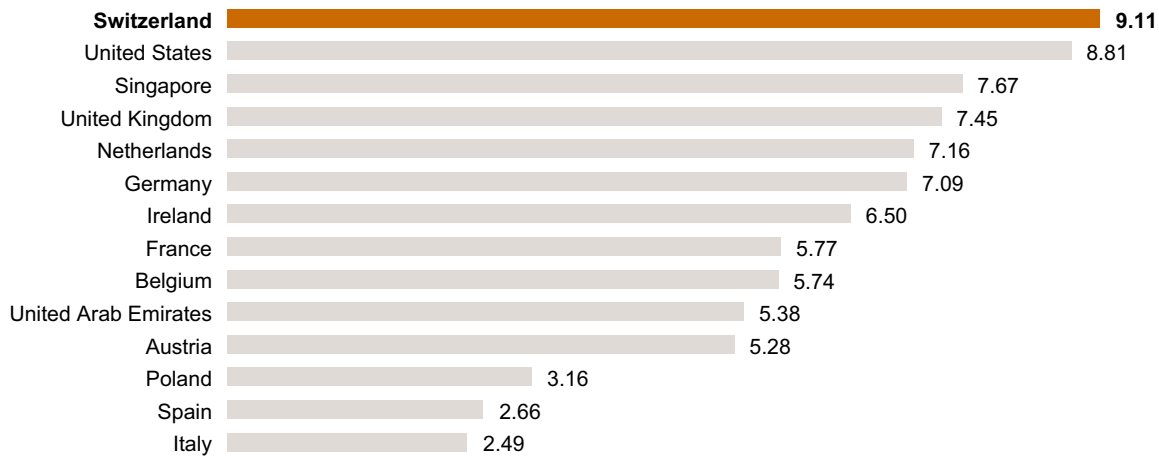
Source: World Economic Forum • The Global Competitiveness Report • 2014-2015

A global hub for scientific research

Switzerland is a global leading place for scientific research. Geneva is no exception as it hosts the largest scientific project ever, the Large Hadron Collider at the CERN, as well as FET European Flagship Program, the Human Brain Project.

4.2.3 Attractiveness for researchers and scientists

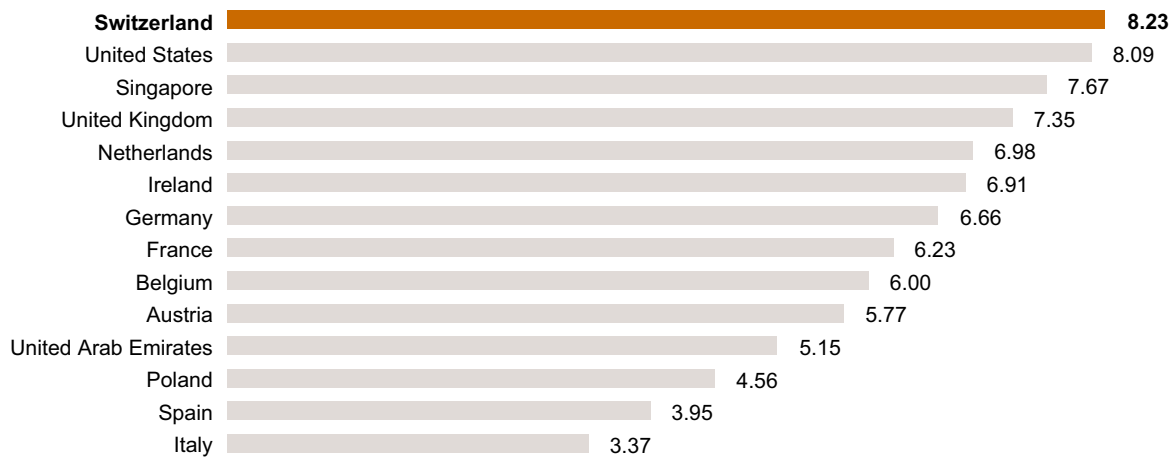
Attractiveness of the country for researchers and scientists
(on a scale from 0 to 10, the higher the better)



Source: IMD • World Competitiveness Yearbook Online • 2014

4.2.4 Scientific research legislation

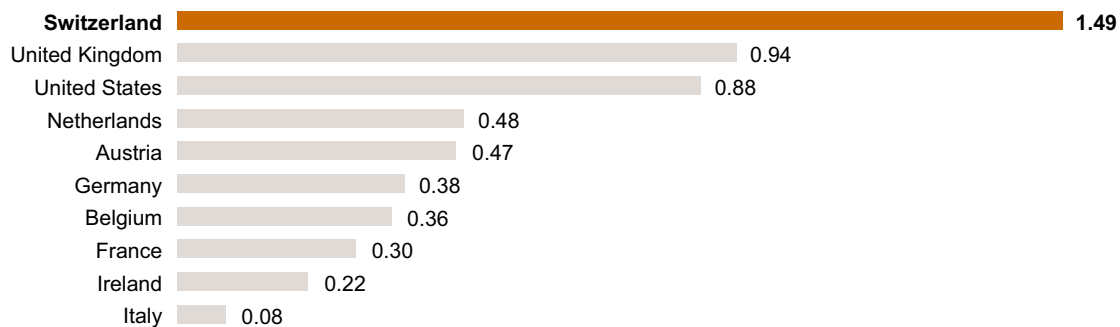
Laws relating to scientific research do encourage innovation
(on a scale from 0 to 10, the higher the better)



Source: IMD • World Competitiveness Yearbook Online • 2014

4.2.5 Nobel prizes per capita

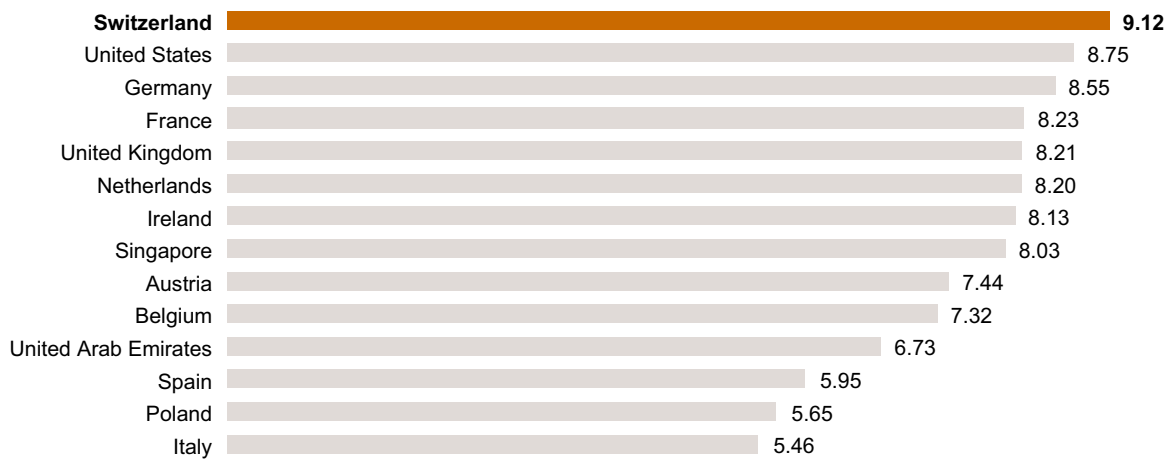
Nobel prizes awarded in physics, chemistry, physiology or medicine and economics since 1950
(per million people)



Source: IMD • World Competitiveness Yearbook Online • 2014

4.3.1 Intellectual property rights

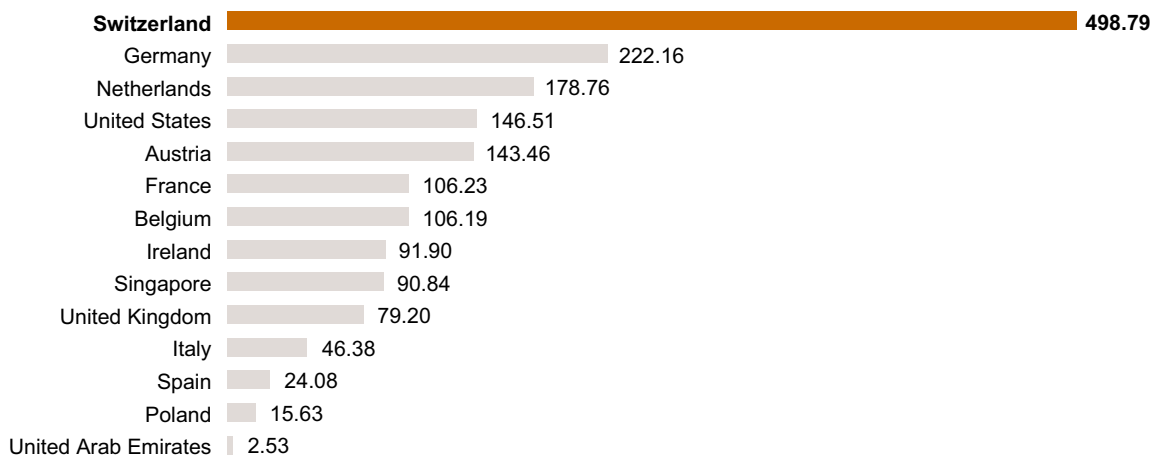
Intellectual property rights are adequately enforced
(on a scale from 0 to 10, the higher the better)



Source: IMD • World Competitiveness Yearbook Online • 2013

4.3.2 Patent applications per capita

Number of applications filed by applicant's origin
(per 100,000 inhabitants)



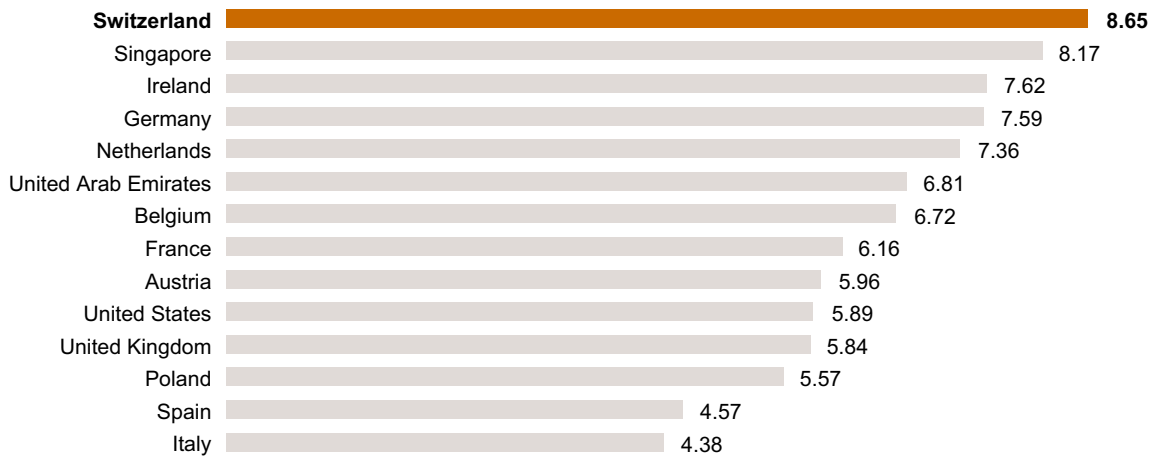
Source: IMD • World Competitiveness Yearbook Online • 2014

Intellectual property rights guaranteed

Intellectual property rights are a key factor for innovation in Switzerland, a country that files more patents per inhabitant than any other. Moreover, Geneva, hosting the headquarters of the World Intellectual Property Organization, is considered to be a world capital for patents and IP protection.

4.4.1 Quality of the educational system

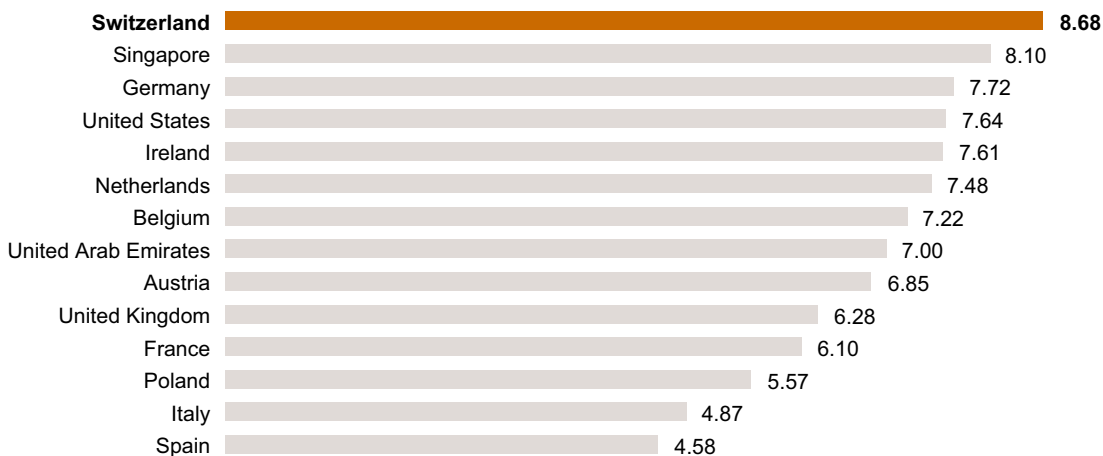
The educational system meets the needs of a competitive economy
(on a scale from 0 to 10, the higher the better)



Source: IMD • World Competitiveness Yearbook Online • 2014

4.4.2 Quality of university education

University education meets the needs of a competitive economy
(on a scale from 0 to 10, the higher the better)



Source: IMD • World Competitiveness Yearbook Online • 2014

World class education

Switzerland's higher education system and universities are consistently ranked among the world's best. With five universities in the top 100 of the Shanghai Ranking (including the University of Geneva at the 66th position) and despite its size, Switzerland is only beaten by the United States and the United Kingdom.

4.4.3 Universities ranking

Number of universities in the top 100 worldwide
of the Academic Ranking of World Universities (Shanghai Ranking)

| Country | Number of universities in the top 100 |
|--------------------|---------------------------------------|
| United States | 52 |
| United Kingdom | 8 |
| Switzerland | 5 |
| Canada | 4 |
| France | 4 |
| Netherlands | 4 |
| Australia | 4 |
| Germany | 4 |
| Japan | 3 |
| Sweden | 3 |
| Denmark | 2 |
| Belgium | 2 |
| Israel | 2 |
| Norway | 1 |
| Finland | 1 |
| Russia | 1 |

Source: Shanghai Ranking Consultancy • Academic Ranking of World Universities • 2014

4.4.4 Executive education ranking

| Country | School | Rank |
|--|--------------------------------------|-----------|
| Switzerland (Lake Geneva Region) | IMD | 1 |
| United States / United Kingdom / Singapore | University of Chicago: Booth | 2 |
| France | HEC Paris | 3 |
| United States | University of Virginia: Darden | 3 |
| France / Singapore / United Arab Emirates | Insead | 5 |
| Spain | Iese Business School | 6 |
| United States | Harvard Business School | 6 |
| United States | Stanford Graduate School of Business | 8 |
| Spain | Esade Business School | 9 |
| United States / Belgium / Singapore / Russia | Center for Creative Leadership | 9 |
| United Kingdom | London Business School | 13 |
| Switzerland | University of St Gallen | 27 |
| China | Ceibs | 29 |
| Italy | SDA Bocconi | 31 |
| Belgium | Vlerick Business School | 36 |
| Netherlands | Nyenrode Business Universiteit | 48 |

Source: Financial Times • Business School Ranking • Executive Education Open • 2014